



# PROGRAM MANAGER FOR ROCKY MOUNTAIN ARSENAL

U.S. ARMY  
MATERIEL COMMAND

— COMMITTED TO PROTECTION OF THE ENVIRONMENT —

**COMPREHENSIVE AIR QUALITY AND  
METEOROLOGICAL MONITORING PROGRAM  
CONTRACT NO. DAA15-88-D-0022  
AIR QUALITY DATA ASSESSMENT  
REPORT FOR FY91  
VOLUME IV  
FINAL VERSION**

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WOODWARD-CLYDE CONSULTANTS  
Prepared for:  
U.S. ARMY PROGRAM MANAGER'S OFFICE  
FOR ROCKY MOUNTAIN ARSENAL**

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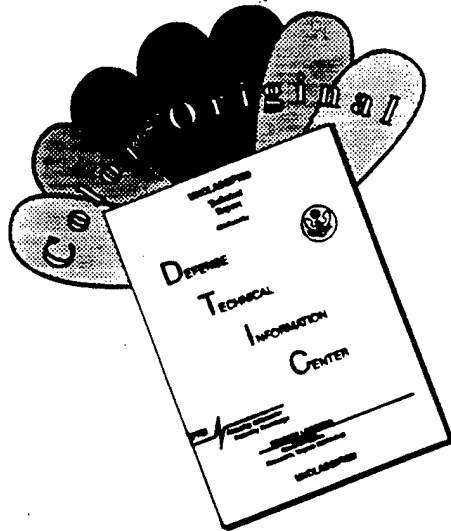
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13. ABSTRACT (Maximum 200 words) <p>THIS REPORT FOCUSES ON RESULTS OF THE CMP FOR FY91 AND INCLUDES ANALYSES AND COMPARISONS TO DATA FOR PRECEDING MONITORING PROGRAMS AT RMA AND FOR OTHER PROGRAMS WHICH RAN CONCURRENTLY. THE CMP FY91 DATA, IN CONJUNCTION WITH CMP FY88, FY89 AND FY90 DATA, BASIN F REMEDIAL MONITORING PROGRAM DATA, AND BASIN F POST-REMEDIAL IRA-F MONITORING PROGRAM DATA PROVIDE COMPREHENSIVE DATABASE FOR EVALUATING REMEDIAL PROGRESS RESULTING FROM THE BASIN F CLEANUP PROGRAM. ONE OBJECTIVE OF THIS REPORT IS TO PROVIDE AN ASSESSMENT OF THE COMBINED DATABASE IN THE CONTEXT OF REMEDIAL PROGRESS. (THIS REPORT CONSISTS OF FOUR VOLUMES AND TWO HIGH DENSITY DISKETTES CONTAINING THE MAJORITY OF THE TABLES PRESENTED IN VOLUME IV.)</p> <p style="text-align: right;">19960909161</p>				
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## ACRONYMS AND ABBREVIATIONS

111TCE	1,1,1-Trichloroethane
112TCE	1, 1,2-Trichloroethane
ACGIH	American Council of Governmental Industrial Hygienists
ADI	Acceptable Daily Intake
Atrazine	2-chloro-4-ethylamino-6-isopropylamino-s-trianine
BCHPD	Bicycloheptadiene
CAQMMP	Comprehensive Air Quality and Meteorological Monitoring Program
C <sub>6</sub> H <sub>6</sub>	Benzene
CCl <sub>4</sub>	Carbon Tetrachloride
CCM	Cubic Centimeters per Minute
CDH	Colorado Department of Health
CFM	Cubic Feet per Minute
CH <sub>2</sub> Cl <sub>2</sub>	Methylene Chloride
CHCl <sub>3</sub>	Chloroform
Chlordane	1,2,4,5,6,7,8,8-octachloro-2,3,3a,4,7,7a-hexahydro-4,7-methano-1H-indene
C <sub>6</sub> H <sub>5</sub> Cl	Chlorobenzene
CMP FY90	Comprehensive Monitoring Program Fiscal Year 1990
CO	Carbon Monoxide
CRL	Certified Reporting Limit
CVAAS	Cold Vapor Atomic Absorption Spectroscopy
DBCP	Dibromochloropropane
DCLE11	1,1-Dichloroethane
DCLE12	1,2-Dichloroethane
DCPD	Dicyclopentadiene
DDD	Dichlorodiphenyldichloroethane
DIMP	Diisopropylmethyl phosphonate
DMB12	Dimethylbenzene
DMDS	Dimethyl Disulfide
DMMP	Dimethylmethyl phosphate
EPA	Environmental Protection Agency
ETC <sub>6</sub> H <sub>5</sub>	Ethylbenzene
GC/MS	Gas Chromatography/Mass Spectrometry
GC/ECD	Gas Chromatography/Electron Capture Detection
HEAST	Health Effects Assessment Summary Table
ICAP/ICP	Inductively Coupled Argon Plasma
IRA-F	Interim Response Action at Basin F
IRDMS	Installation Restoration Data Management System
IRIS	Integrated Risk Information System
ISC	Industrial Source Complex Dispersion Model

Malathion	0,0-dimethyl-s-(1,2-dicarboxyethyl) phosphorodithioate
MEC <sub>6</sub> H <sub>5</sub>	Toluene
MIBK	Methyl Isobutyl Ketone
MRI	Midwest Research Institute
MST	Mountain Standard Time
NAAQS	National Ambient Air Quality Standards
NATICH	National Air Toxics Information Clearinghouse
NIOSH	National Institute of Occupational Safety and Health
NNDMEA	N-Nitrosodimethylamine
NO	Nitric Oxide
NO <sub>2</sub>	Nitrogen Dioxide
NO <sub>x</sub>	Nitrogen Oxides
O <sub>3</sub>	Ozone
OCP	Organochlorine Pesticides
Parathion	Parathion (C <sub>10</sub> H <sub>14</sub> NO <sub>5</sub> PS)
PMRMA	Program Manager Rocky Mountain Arsenal
PM-10/PM <sub>10</sub>	Respirable Particulates less than 10 microns
PPDDE	Dichlorodiphenylethane
PPDDT	Dichlorodiphenyltrichloroethane
PSD	Prevention of Significant Deterioration
PUF	Polyurethane Foam
QA	Quality Assurance
QC	Quality Control
RBACs	Risk-Based Air Concentrations
RfCs	Reference Concentrations
RMA	Rocky Mountain Arsenal
SARA	Superfund Amendments and Reauthorization Act
SCCM	Standard Cubic Centimeters per Minute
SCFM	Standard Cubic Feet per Minute
SO <sub>2</sub>	Sulfur Dioxide
Supona	2-chloro-1-(2,4-dichlorophenyl) vinyl diethyl phosphate
SVOC	Semi-Volatile Organic Compounds
T12DCE	Trans-1,2-Dichloroethene
TCLEE	Tetrachloroethene
TIC	Tentatively Identified Compound
TLV	Threshold limit value
tpy	tons per year
TRCLE	Trichloroethene
TSP	Total Suspended Particulates
UCRL	Upper Certified Reporting Limit
UNK	Unknown number
USATHAMA	U.S. Army Toxic and Hazardous Materials Agency
USAEHA	U.S. Army Environmental Hygiene Agency

VOC  
XYLENE

Volatile Organic Compounds  
Xylene

## APPENDIX A

### TOTAL SUSPENDED PARTICULATES (TSP) DATA

A1 Summary

A2 Listing



A1 SUMMARY

TABLE - TOTAL SUSPENDED PARTICULATE (TSP) CONCENTRATIONS

FACILITY NAME: ROCKY MTN ARSENAL  
STATE: COLORADOSITE: A01  
COUNTY: ADAMSPARAMETER: TSP  
SAMPLING INTERVAL: ONCE EVERY 6  
DAYS FOR 24 HOURSUNITS: MICROGRAMS/(CU.M)  
YEAR: FY91

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL
01		---	---			60							
02	---												
03												87	
04					84				32	50	15		
05							45	28					
06				---		25							
07		---	---										
08	---												
09												24	
10					67				36	36	43		
11							13	45					
12				---		30							
13		---	---										
14	---											36	
15											42		
16					33				51	52			
17				---			67	46					
18						85							
19		---	---										
20	---											59	
21											49		
22					60				37	7			
23				49			33	26					
24						45							
25		---	---										
26	---											113	
27											29		
28									62	47			
29				60		18	23	62					
30													
31			---										
NO.	0	0	0	2	4	6	5	5	5	5	5	5	42
MEAN	***	***	***	54	61	44	36	41	44	38	36	64	46
MAX	***	***	***	60	84	85	67	62	62	52	49	113	113
GEO MEAN	***	***	***	54	58	38	32	39	43	31	33	55	40

--- indicates missing data

\*\* indicates invalid data

\*\*\* indicates insufficient data for computation

# indicates the volume flow rate during the sampling  
period was less than 39 ACFM or greater than 60 ACFM

FY91 PERCENT RECOVERY = 68.9

CONTRACT PERIOD PERCENT RECOVERY = 93.3

TABLE - TOTAL SUSPENDED PARTICULATE (TSP) CONCENTRATIONS

FACILITY NAME: ROCKY MTN ARSENAL  
STATE: COLORADOSITE: A02  
COUNTY: ADAMSPARAMETER: TSP  
SAMPLING INTERVAL: ONCE EVERY 6  
DAYS FOR 24 HOURSUNITS: MICROGRAMS/(CU.M)  
YEAR: FY91

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL
01		---	---			85							
02	---												
03												149	
04					59				43	81	19		
05							47	29					
06				---		39							
07		---	---										
08	---												
09												30	
10											60		
11					43				---	100			
12				---			20	69					
13		---	---			34							
14	---												
15												47	
16											69		
17					42				94	75			
18				---			91	45					
19		---	---			85							
20	---												
21												115	
22											81		
23					67				36	16			
24				49			39	34					
25		---	---			36							
26	---												
27												202	
28											38		
29									**	82			
30				73			22	75					
31			---			16							
NO.	0	0	0	2	4	6	5	5	3	5	5	5	40
MEAN	***	***	***	61	53	49	44	50	57	71	53	109	61
MAX	***	***	***	73	67	85	91	75	94	100	81	202	202
GEO MEAN	***	***	***	60	52	42	38	47	52	60	48	87	52

--- indicates missing data

\*\* indicates invalid data

\*\*\* indicates insufficient data for computation

# indicates the volume flow rate during the sampling  
period was less than 39 ACFM or greater than 60 ACFM

FY91 PERCENT RECOVERY = 65.6

CONTRACT PERIOD PERCENT RECOVERY = 88.9

TABLE - TOTAL SUSPENDED PARTICULATE (TSP) CONCENTRATIONS

FACILITY NAME: ROCKY MTN ARSENAL  
STATE: COLORADOSITE: A03  
COUNTY: ADAMSPARAMETER: TSP  
SAMPLING INTERVAL: ONCE EVERY 6  
DAYS FOR 24 HOURSUNITS: MICROGRAMS/(CU.M)  
YEAR: FY91

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL
01		---	---			46							
02	---											96	
03											16		
04					41				42	68			
05				---			39	19					
06		---	---			18							
07	---												
08												31	
09											48		
10					32		10	53	36	42			
11				---		22							
12		---	---										
13	---												
14												32	
15											47		
16					24				57	59			
17				---			51	55					
18		---	---			23							
19	---												
20												75	
21											50		
22					40				36	8			
23				30			23	20					
24		---	---			26							
25	---												
26												119	
27											30		
28									81	41			
29				28			16	62					
30						13							
31			---										
NO.	0	0	0	2	4	6	5	5	5	5	5	5	42
MEAN	***	***	***	29	34	25	28	42	50	44	38	70	41
MAX	***	***	***	30	41	46	51	62	81	68	50	119	119
GEO MEAN	***	***	***	29	33	23	24	37	48	35	35	61	35

--- indicates missing data

\*\* indicates invalid data

\*\*\* indicates insufficient data for computation

# indicates the volume flow rate during the sampling  
period was less than 39 ACFM or greater than 60 ACFMFY91 PERCENT RECOVERY = 68.9  
CONTRACT PERIOD PERCENT RECOVERY = 93.3

TABLE - TOTAL SUSPENDED PARTICULATE (TSP) CONCENTRATIONS

FACILITY NAME: ROCKY MTN ARSENAL  
STATE: COLORADO

SITE: A04  
COUNTY: ADAMS

PARAMETER: TSP  
SAMPLING INTERVAL: ONCE EVERY 6  
DAYS FOR 24 HOURS

UNITS: MICROGRAMS/(CU.M)  
YEAR: FY91

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL
01		---	---			51							
02	---												
03												---	
04					43				29	63	13#		
05							34	19					
06				---		13							
07		---	---										
08	---												
09												38#	
10											39#		
11					38		9	42	34	32			
12				---									
13						23							
14	---												
15												48#	
16											71#		
17					25				51	55			
18				---			48	49					
19		---	---			79							
20	---												
21												66	
22											51		
23					35				34	6			
24				22			23	16					
25		---	---			22							
26	---												
27												116	
28											---		
29									69	46			
30				26			16	50					
31			---			12							
NO.	0	0	0	2	4	6	5	5	5	5	4	4	40
MEAN	***	***	***	24	35	33	26	35	44	40	43	67	39
MAX	***	***	***	26	43	79	48	50	69	63	71	116	116
GEO MEAN	***	***	***	24	35	26	22	32	41	31	37	61	33

--- indicates missing data

\*\* indicates invalid data

\*\*\* indicates insufficient data for computation

# indicates the volume flow rate during the sampling  
period was less than 39 ACFM or greater than 60 ACFM

FY91 PERCENT RECOVERY = 65.6

CONTRACT PERIOD PERCENT RECOVERY = 88.9

TABLE - TOTAL SUSPENDED PARTICULATE (TSP) CONCENTRATIONS

FACILITY NAME: ROCKY MTN ARSENAL  
STATE: COLORADOSITE: A05  
COUNTY: ADAMSPARAMETER: TSP  
SAMPLING INTERVAL: ONCE EVERY 6  
DAYS FOR 24 HOURSUNITS: MICROGRAMS/(CU.M)  
YEAR: FY91

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL
01		---	---			55							
02	---												
03												84	
04					100				33	54	12#		
05							33	29					
06		---	---	---		19							
07													
08	---												
09												24	
10											38		
11					81				36	37			
12				---			13	48					
13		---	---			26							
14	---												
15												34	
16											50		
17					35				63	55			
18				---			61	59					
19		---	---			94							
20	---												
21												57	
22											47		
23					54				37	6			
24				48			34	23					
25		---	---			36							
26	---												
27												87	
28											27		
29									75	34#			
30				75			27	59					
31			---			19							
NO.	0	0	0	2	4	6	5	5	5	5	5	5	42
MEAN	***	***	***	62	68	41	33	44	49	37	35	57	46
MAX	***	***	***	75	100	94	61	59	75	55	50	87	100
GEO MEAN	***	***	***	60	63	35	30	41	46	29	31	51	39

--- indicates missing data

\*\* indicates invalid data

\*\*\* indicates insufficient data for computation

# indicates the volume flow rate during the sampling  
period was less than 39 ACFM or greater than 60 ACFM

FY91 PERCENT RECOVERY = 68.9

CONTRACT PERIOD PERCENT RECOVERY = 93.3

TABLE - TOTAL SUSPENDED PARTICULATE (TSP) CONCENTRATIONS

FACILITY NAME: ROCKY MTN ARSENAL  
STATE: COLORADOSITE: A05-C  
COUNTY: ADAMSPARAMETER: TSP  
SAMPLING INTERVAL: ONCE EVERY 6  
DAYS FOR 24 HOURSUNITS: MICROGRAMS/(CU.M)  
YEAR: FY91

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL
01		---	---			52							
02	---												
03												85	
04											18#		
05					60				29	48			
06				---			**	26					
07		---	---			17							
08	---												
09												25	
10											36		
11					68				31	32			
12				---			11	44					
13		---	---			23							
14	---												
15												38	
16											47		
17					30				50	47			
18				---			55	50					
19		---	---			86							
20	---												
21												54	
22											43		
23					45				33	5			
24				38			**	20					
25		---	---			30							
26	---												
27												84	
28											27		
29									61	40			
30				68			23	51					
31			---			18							
NO.	0	0	0	2	4	6	3	5	5	5	5	5	40
MEAN	***	***	***	53	51	38	30	38	41	34	34	57	41
MAX	***	***	***	68	68	86	55	51	61	48	47	85	86
GEO MEAN	***	***	***	50	48	31	24	36	39	27	33	52	36

--- indicates missing data

\*\* indicates invalid data

\*\*\* indicates insufficient data for computation

# indicates the volume flow rate during the sampling  
period was less than 39 ACFM or greater than 60 ACFM

FY91 PERCENT RECOVERY = 65.6

CONTRACT PERIOD PERCENT RECOVERY = 88.9

TABLE - TOTAL SUSPENDED PARTICULATE (TSP) CONCENTRATIONS

FACILITY NAME: ROCKY MTN ARSENAL  
STATE: COLORADO

SITE: A06  
COUNTY: ADAMS

PARAMETER: TSP  
SAMPLING INTERVAL: ONCE EVERY 6  
DAYS FOR 24 HOURS

UNITS: MICROGRAMS/(CU.M)  
YEAR: FY91

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL
01		---	---			46							
02	---												
03												85	
04					47				33	57	13		
05				---			26	21					
06						14							
07	---	---	---										
08													
09												24	
10											36		
11					39		10	49	37	36			
12				---		19							
13		---	---										
14	---												
15												35	
16											48		
17					25				61	60			
18				---			54	53					
19		---	---			61							
20	---												
21												53	
22											50		
23					39				42	8			
24				29			27	22					
25		---	---			23							
26	---												
27												93	
28											25		
29									73	36			
30				34			20	60					
31			---			15							
NO.	0	0	0	2	4	6	5	5	5	5	5	5	42
MEAN	***	***	***	32	37	30	27	41	49	40	34	58	39
MAX	***	***	***	34	47	61	54	60	73	60	50	93	93
GEO MEAN	***	***	***	32	36	25	24	37	47	32	31	51	34

--- indicates missing data

\*\* indicates invalid data

\*\*\* indicates insufficient data for computation

# indicates the volume flow rate during the sampling period was less than 39 ACFM or greater than 60 ACFM

FY91 PERCENT RECOVERY = 68.9

CONTRACT PERIOD PERCENT RECOVERY = 93.3



TABLE - TOTAL SUSPENDED PARTICULATE (TSP) CONCENTRATIONS

FACILITY NAME: ROCKY MTN ARSENAL  
STATE: COLORADO

SITE: A07  
COUNTY: ADAMS

PARAMETER: TSP  
SAMPLING INTERVAL: ONCE EVERY 6  
DAYS FOR 24 HOURS

UNITS: MICROGRAMS/(CU.M)  
YEAR: FY91

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL
01		---	---			42							
02	---												
03												89	
04					55				29	46	14		
05							41	22					
06		---	---	---		16							
07													
08	---											27	
09											36		
10					46		11	43	32	30			
11				---									
12						25							
13		---	---										
14	---											31#	
15											42		
16					25				---	50			
17				---			55	48					
18		---	---			81							
19													
20	---											55	
21											46		
22					51				34	5			
23				41			25	19					
24		---	---			---							
25													
26	---											127#	
27											28		
28									58	35			
29				40			20	54					
30						15							
31			---										
NO.	0	0	0	2	4	5	5	5	4	5	5	5	40
MEAN	***	***	***	41	44	36	31	37	38	33	33	66	40
MAX	***	***	***	41	55	81	55	54	58	50	46	127	127
GEO MEAN	***	***	***	41	43	29	26	34	37	26	31	56	34

--- indicates missing data

\*\* indicates invalid data

\*\*\* indicates insufficient data for computation

# indicates the volume flow rate during the sampling  
period was less than 39 ACFM or greater than 60 ACFM

FY91 PERCENT RECOVERY = 65.6  
CONTRACT PERIOD PERCENT RECOVERY = 88.9

TABLE - TOTAL SUSPENDED PARTICULATE (TSP) CONCENTRATIONS

FACILITY NAME: ROCKY MTN ARSENAL  
STATE: COLORADO

SITE: A08  
COUNTY: ADAMS

PARAMETER: TSP  
SAMPLING INTERVAL: ONCE EVERY 6  
DAYS FOR 24 HOURS

UNITS: MICROGRAMS/(CU.M)  
YEAR: FY91

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL
01		---	---			48							
02	---												
03												103	
04					51				36	47	10		
05				---			27	20					
06						14							
07	---	---	---										
08													
09												31	
10					38				32	28	31		
11				---			9	41					
12						21							
13	---	---	---										
14													
15												56	
16											82		
17					23				59	50			
18				---			49	54					
19		---	---			99							
20	---												
21												74	
22											57		
23					37				36	5			
24				26			26	18					
25		---	---			27							
26	---												
27												97	
28											27		
29									61	34			
30				34			21	62					
31			---			14							
NO.	0	0	0	2	4	6	5	5	5	5	5	5	42
MEAN	***	***	***	30	37	37	26	39	45	33	42	72	41
MAX	***	***	***	34	51	99	49	62	61	50	82	103	103
GEO MEAN	***	***	***	30	36	28	23	35	43	26	33	66	34

--- indicates missing data

\*\* indicates invalid data

\*\*\* indicates insufficient data for computation

# indicates the volume flow rate during the sampling period was less than 39 ACFM or greater than 60 ACFM

FY91 PERCENT RECOVERY = 68.9

CONTRACT PERIOD PERCENT RECOVERY = 93.3

TABLE - TOTAL SUSPENDED PARTICULATE (TSP) CONCENTRATIONS

FACILITY NAME: ROCKY MTN ARSENAL  
STATE: COLORADO

SITE: A09  
COUNTY: ADAMS

PARAMETER: TSP  
SAMPLING INTERVAL: ONCE EVERY 6  
DAYS FOR 24 HOURS

UNITS: MICROGRAMS/(CU.M)  
YEAR: FY91

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL
01		---	---			35							
02	---												
03												31	
04					46				30	45	12		
05							26	18					
06		---	---	---		13							
07													
08	---												
09												28	
10					33				34	27	36		
11							10	39					
12				---		21							
13		---	---										
14	---												
15												33	
16											39		
17					20				49	44			
18				---			49	45					
19		---	---			96							
20	---												
21												52	
22											41		
23					36				35	7			
24				24			21	17					
25		---	---			22							
26	---												
27												95	
28											20		
29									67	34			
30				28			18	51					
31			---			13							
NO.	0	0	0	2	4	6	5	5	5	5	5	5	42
MEAN	***	***	***	26	34	33	25	34	43	31	30	48	34
MAX	***	***	***	28	46	96	49	51	67	45	41	95	96
GEO MEAN	***	***	***	26	32	25	22	31	41	27	27	43	30

--- indicates missing data  
\*\* indicates invalid data  
\*\*\* indicates insufficient data for computation  
# indicates the volume flow rate during the sampling period was less than 39 ACFM or greater than 60 ACFM

FY91 PERCENT RECOVERY = 68.9  
CONTRACT PERIOD PERCENT RECOVERY = 93.3

TABLE - TOTAL SUSPENDED PARTICULATE (TSP) CONCENTRATIONS

FACILITY NAME: ROCKY MTN ARSENAL  
STATE: COLORADOSITE: A010  
COUNTY: ADAMSPARAMETER: TSP  
SAMPLING INTERVAL: ONCE EVERY 6  
DAYS FOR 24 HOURSUNITS: MICROGRAMS/(CU.M)  
YEAR: FY91

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL
01						59							
02	---												
03												88	
04					49				32	45	13		
05							35	24					
06				---		16							
07		---	---										
08	---												
09												29	
10											34		
11					---				34	29			
12				---			9	42					
13		---	---			20							
14	---												
15												39	
16											55		
17					27				59	53			
18				---			62	47					
19		---	---			87							
20	---												
21												48	
22											50		
23					42				33	5			
24				30			---	20					
25		---	---			28							
26	---												
27												102	
28											29		
29									59	44			
30				---			22	53					
31			---			15							
NO.	0	0	0	1	3	6	4	5	5	5	5	5	39
MEAN	***	***	***	30	39	37	32	37	44	35	36	61	40
MAX	***	***	***	30	49	87	62	53	59	53	55	102	102
GEO MEAN	***	***	***	30	38	30	26	34	42	28	32	55	34

--- indicates missing data

\*\* indicates invalid data

\*\*\* indicates insufficient data for computation

# indicates the volume flow rate during the sampling  
period was less than 39 ACFM or greater than 60 ACFM

FY91 PERCENT RECOVERY = 63.9

CONTRACT PERIOD PERCENT RECOVERY = 86.7

TABLE - TOTAL SUSPENDED PARTICULATE (TSP) CONCENTRATIONS

FACILITY NAME: ROCKY MTN ARSENAL  
STATE: COLORADOSITE: A011  
COUNTY: ADAMSPARAMETER: TSP  
SAMPLING INTERVAL: ONCE EVERY 6  
DAYS FOR 24 HOURSUNITS: MICROGRAMS/(CU.M)  
YEAR: FY91

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL
01		---	---			45							
02	---												
03												---	
04					52				34	51	18#		
05							62	23					
06				---		18							
07		---	---										
08	---												
09												286	
10					45				40	32	44		
11							10	42					
12				---		25							
13		---	---										
14	---											31	
15											99		
16					24				53	55			
17				---			80	106					
18						247							
19		---	---										
20	---											57	
21											62		
22					46				55	7			
23				32			25	19					
24						26							
25		---	---										
26	---											117	
27													
28									81	43	---		
29				30			22	57					
30						15							
31			---										
NO.	0	0	0	2	4	6	5	5	5	5	4	4	40
MEAN	***	***	***	31	42	63	40	49	53	38	55	123	55
MAX	***	***	***	32	52	247	80	106	81	55	99	286	286
GEO MEAN	***	***	***	31	40	36	31	41	50	31	47	88	41

--- indicates missing data  
 \*\* indicates invalid data  
 \*\*\* indicates insufficient data for computation  
 # indicates the volume flow rate during the sampling  
 period was less than 39 ACFM or greater than 60 ACFM

FY91 PERCENT RECOVERY = 65.6  
 CONTRACT PERIOD PERCENT RECOVERY = 88.9

TABLE - TOTAL SUSPENDED PARTICULATE (TSP) CONCENTRATIONS

FACILITY NAME: ROCKY MTN ARSENAL  
STATE: COLORADO

SITE: A012  
COUNTY: ADAMS

PARAMETER: TSP  
SAMPLING INTERVAL: ONCE EVERY 6  
DAYS FOR 24 HOURS

UNITS: MICROGRAMS/(CU.M)  
YEAR: FY91

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL
01		---	---			42							
02	---												
03												92	
04					50				39	56	16		
05				---			42	20					
06						18							
07	---	---	---										
08	---												
09												35	
10											41		
11					38				39	32			
12			---				9	55					
13		---	---			26							
14	---												
15												38	
16											50		
17					23				69	54			
18			---				57	57					
19		---	---			88							
20	---												
21												57	
22											47		
23					48				42	8			
24				29			31	20					
25		---	---			34							
26	---												
27												95	
28											33		
29									87	42			
30				27			20	59					
31			---			18							
NO.	0	0	0	2	4	6	5	5	5	5	5	5	42
MEAN	***	***	***	28	40	38	32	42	55	38	38	64	42
MAX	***	***	***	29	50	88	57	59	87	56	50	95	95
GEO MEAN	***	***	***	28	38	32	27	38	52	32	35	58	37

--- indicates missing data

\*\* indicates invalid data

\*\*\* indicates insufficient data for computation

# indicates the volume flow rate during the sampling period was less than 39 ACFM or greater than 60 ACFM

FY91 PERCENT RECOVERY = 68.9

CONTRACT PERIOD PERCENT RECOVERY = 93.3

TABLE - TOTAL SUSPENDED PARTICULATE (TSP) CONCENTRATIONS

FACILITY NAME: ROCKY MTN ARSENAL  
STATE: COLORADO

SITE: 011  
COUNTY: ADAMS

PARAMETER: TSP  
SAMPLING INTERVAL: ONCE EVERY 6  
DAYS FOR 24 HOURS

UNITS: MICROGRAMS/(CU.M)  
YEAR: FY91

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL
01		---	---			---							
02	---												
03												90	
04											16		
05					---		49	25	63	53			
06				---		---							
07		---	---										
08	---												
09												76	
10											41		
11					---		12	48	37	36			
12				---									
13		---	---			---							
14	---												
15												31	
16											65		
17					---				94	58			
18				---			55	55					
19		---	---			---							
20	---												
21												51#	
22											70		
23					---				35	7			
24				---			25	19					
25		---	---			---							
26	---												
27												---	
28											31		
29									81	44			
30				---			21	59					
31			---			---							
NO.	0	0	0	0	0	0	5	5	5	5	5	4	29
MEAN	***	***	***	***	***	***	33	41	62	40	45	62	47
MAX	***	***	***	***	***	***	55	59	94	58	70	90	94
GEO MEAN	***	***	***	***	***	***	28	37	58	32	39	58	40

--- indicates missing data

\*\* indicates invalid data

\*\*\* indicates insufficient data for computation

# indicates the volume flow rate during the sampling period was less than 39 ACFM or greater than 60 ACFM

FY91 PERCENT RECOVERY = 47.5

CONTRACT PERIOD PERCENT RECOVERY = 64.4

TABLE - TOTAL SUSPENDED PARTICULATE (TSP) CONCENTRATIONS

FACILITY NAME: ROCKY MTN ARSENAL  
STATE: COLORADOSITE: 012  
COUNTY: ADAMSPARAMETER: TSP  
SAMPLING INTERVAL: ONCE EVERY 6  
DAYS FOR 24 HOURSUNITS: MICROGRAMS/(CU.M)  
YEAR: FY91

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL
01		---	---			---							
02	---												
03													
04					---				35	54	17#		
05				---			37	19					
06		---	---			---							
07													
08	---												
09												40	
10											46		
11					---		9	45	34	53			
12				---									
13		---	---			---							
14	---												
15												36	
16											108		
17				---	---		60	56	71	78			
18													
19		---	---			---							
20	---												
21													
22											94		
23					---				34	11			
24				---			22	19					
25		---	---			---							
26	---												
27												116	
28											---		
29									78	64			
30				---			19	---					
31			---			---							
NO.	0	0	0	0	0	0	5	4	5	5	4	3	26
MEAN	***	***	***	***	***	***	29	35	51	52	66	64	48
MAX	***	***	***	***	***	***	60	56	78	78	108	116	116
GEO MEAN	***	***	***	***	***	***	24	31	47	44	53	55	40

--- indicates missing data

\*\* indicates invalid data

\*\*\* indicates insufficient data for computation

# indicates the volume flow rate during the sampling  
period was less than 39 ACFM or greater than 60 ACFM

FY91 PERCENT RECOVERY = 42.6

CONTRACT PERIOD PERCENT RECOVERY = 57.8



TABLE - TOTAL SUSPENDED PARTICULATE (TSP) CONCENTRATIONS

FACILITY NAME: ROCKY MTN ARSENAL  
STATE: COLORADOSITE: FC1  
COUNTY: ADAMSPARAMETER: TSP  
SAMPLING INTERVAL: ONCE EVERY 6  
DAYS FOR 24 HOURSUNITS: MICROGRAMS/(CU.M)  
YEAR: FY91

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL
01		63	---			49							
02	---												
03													
04					47				33	---	17	---	
05							42	---					
06		---	46	---		---							
07													
08	---												
09												11	
10													
11					---				35	35	---		
12				36			---	40					
13		410	---			24							
14	---												
15													
16											59	---	
17					23				53	---			
18		---	19	---		---	58	---					
19													
20	18												
21												63	
22													
23					---				35	7	---		
24				30			---	19					
25		32	---			25							
26	---												
27													
28											32	---	
29									87	---			
30				---			19	---					
31			31			---							
NO.	1	3	3	2	2	3	3	2	5	2	3	2	31
MEAN	18	168	32	33	35	33	39	29	49	21	36	37	48
MAX	18	410	46	36	47	49	58	40	87	35	59	63	410
GEO MEAN	18	94	30	33	33	31	36	27	45	15	32	27	35

--- indicates missing data

\*\* indicates invalid data

\*\*\* indicates insufficient data for computation

# indicates the volume flow rate during the sampling  
period was less than 39 ACFM or greater than 60 ACFM

FY91 PERCENT RECOVERY = 50.8

CONTRACT PERIOD PERCENT RECOVERY = 53.3

TABLE - TOTAL SUSPENDED PARTICULATE (TSP) CONCENTRATIONS

FACILITY NAME: ROCKY MTN ARSENAL  
STATE: COLORADO

SITE: FC2  
COUNTY: ADAMS

PARAMETER: TSP  
SAMPLING INTERVAL: ONCE EVERY 6  
DAYS FOR 24 HOURS

UNITS: MICROGRAMS/(CU.M)  
YEAR: FY91

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL
01		54	---			52							
02	---												
03													
04											18	---	
05					---				37	---			
06				---			---	---					
07		---	44			---							
08	---												
09													
10													
11					---				34	33	---		
12				34			---	46					
13		49	---			25							
14	---												
15													
16													
17					---				58	---	60	---	
18				---			61	---					
19		---	19			---							
20	18												
21													
22												55	
23					---				45	7	---		
24				---			---	20					
25		25	---			33							
26	---												
27													
28													
29									98	---			
30				---			21	---					
31			31			---							
NO.	1	3	3	1	0	3	2	2	5	2	2	1	25
MEAN	18	43	31	34	***	37	41	33	54	20	39	55	39
MAX	18	54	44	34	***	52	61	46	98	33	60	55	98
GEO MEAN	18	41	30	34	***	35	36	30	50	16	33	55	34

--- indicates missing data

\*\* indicates invalid data

\*\*\* indicates insufficient data for computation

# indicates the volume flow rate during the sampling period was less than 39 ACFM or greater than 60 ACFM

FY91 PERCENT RECOVERY = 41.0

CONTRACT PERIOD PERCENT RECOVERY = 40.0

TABLE - TOTAL SUSPENDED PARTICULATE (TSP) CONCENTRATIONS

FACILITY NAME: ROCKY MTN ARSENAL  
STATE: COLORADOSITE: FC3  
COUNTY: ADAMSPARAMETER: TSP  
SAMPLING INTERVAL: ONCE EVERY 6  
DAYS FOR 24 HOURSUNITS: MICROGRAMS/(CU.M)  
YEAR: FY91

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL
01		59	---			39							
02	---												
03												---	
04					49						---		
05													
06				---			---	---					
07		---	43			---							
08	---												
09												---	
10													
11					---				---	29			
12				31			---	---					
13		67	---			21							
14	---												
15												---	
16											47		
17					21				55	---			
18				---			---	---					
19		---	13			---							
20	18												
21												60	
22													
23					---				---	---			
24				29			---	19					
25		26	---			23							
26	---												
27												---	
28											---		
29													
30				---			20	---					
31			30			---							
NO.	1	3	3	2	2	3	1	1	1	1	1	1	20
MEAN	18	50	29	30	35	28	20	19	55	29	47	60	35
MAX	18	67	43	31	49	39	20	19	55	29	47	60	67
GEO MEAN	18	46	26	30	32	27	20	19	55	29	47	60	31

--- indicates missing data

\*\* indicates invalid data

\*\*\* indicates insufficient data for computation

# indicates the volume flow rate during the sampling  
period was less than 39 ACFM or greater than 60 ACFM

FY91 PERCENT RECOVERY = 32.8

CONTRACT PERIOD PERCENT RECOVERY = 28.9

TABLE - TOTAL SUSPENDED PARTICULATE (TSP) CONCENTRATIONS

FACILITY NAME: ROCKY MTN ARSENAL  
STATE: COLORADOSITE: FC4  
COUNTY: ADAMSPARAMETER: TSP  
SAMPLING INTERVAL: ONCE EVERY 6  
DAYS FOR 24 HOURSUNITS: MICROGRAMS/(CU.M)  
YEAR: FY91

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL
01		63	---			42							
02	---												
03												---	
04					51						---		
05													
06													
07		---	46	---		---							
08	---												
09													
10													
11					---					39	---		
12				35									
13		104	---			22							
14	---												
15													
16					23								
17													
18				---									
19		---	18			---							
20	17												
21												49	
22													
23					---								
24				32				40					
25		28	---			27							
26	---												
27													
28													
29													
30				---			20	---					
31			32			---							
NO.	1	3	3	2	2	3	1	1	0	1	0	1	18
MEAN	17	65	32	33	37	30	20	40	***	39	***	49	38
MAX	17	104	46	35	51	42	20	40	***	39	***	49	104
GEO MEAN	17	57	30	33	34	29	20	40	***	39	***	49	34

--- indicates missing data

\*\* indicates invalid data

\*\*\* indicates insufficient data for computation

# indicates the volume flow rate during the sampling  
period was less than 39 ACFM or greater than 60 ACFM

FY91 PERCENT RECOVERY = 29.5

CONTRACT PERIOD PERCENT RECOVERY = 24.4

TABLE - TOTAL SUSPENDED PARTICULATE (TSP) CONCENTRATIONS

FACILITY NAME: ROCKY MTN ARSENAL  
STATE: COLORADO

SITE: FC5  
COUNTY: ADAMS

PARAMETER: TSP  
SAMPLING INTERVAL: ONCE EVERY 6  
DAYS FOR 24 HOURS

UNITS: MICROGRAMS/(CU.M)  
YEAR: FY91

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL
01		78	---			51							
02	---												
03												---	
04					68				49	---	16		
05							62	---					
06		---	48	---		---							
07													
08	---												
09												65	
10									39	---			
11				46	---			46					
12		115	---			27	---						
13													
14	---											---	
15											55		
16					23				87	---			
17							55	---					
18		---	20	---		---							
19	16												
20												68	
21													
22					---				36	7	---		
23				31			---	19					
24		31	---			---							
25													
26	---												
27												---	
28									87	---	39		
29							20	---					
30				---		---							
31			32										
NO.	1	3	3	2	2	2	3	2	5	1	3	2	29
MEAN	16	75	33	39	46	39	46	33	60	7	37	67	46
MAX	16	115	48	46	68	51	62	46	87	7	55	68	115
GEO MEAN	16	65	31	38	40	37	41	30	55	7	33	67	39

--- indicates missing data

\*\* indicates invalid data

\*\*\* indicates insufficient data for computation

# indicates the volume flow rate during the sampling  
period was less than 39 ACFM or greater than 60 ACFM

FY91 PERCENT RECOVERY = 47.5

CONTRACT PERIOD PERCENT RECOVERY = 48.9

A2 LISTING

## SRANNTSP.XLS

TSP DATA FOR FISCAL YEAR 1991										
EBASCO DATA 24 JANUARY, 1991 thru 23 JULY, 1991										
WOODWARD-CLYDE CONSULTANTS DATA 29 JULY thru 27 SEPTEMBER, 1991										
TSP DATA										
SMPL	SMPL	DAY	MT	YR	TOTAL ELAPS TIME	AVG TEM DEG (F)	AVG, ATMS. PRES. (in. hg.)	SMPL WT (ug) (TSP)	TSP TOTAL VOL. SCM	CONC. UG/M3
FC1	27142	20	10	90				28850	1616.00	17.85
FC2	27143	20	10	90				28950	1631.00	17.75
FC3	27145	20	10	90				28650	1634.00	17.53
FC4	27146	20	10	90				27800	1641.00	16.94
FC5	27151	20	10	90				25800	1616.00	15.97
FC1	27153	1	11	90				101000	1614.00	62.58
FC2	27154	1	11	90				87950	1629.00	53.99
FC3	27156	1	11	90				92050	1565.00	58.82
FC4	27157	1	11	90				103200	1641.00	62.89
FC5	17158	1	11	90				125750	1615.00	77.86
FC1	27161	13	11	90				664150	1620.00	409.97
FC2	27162	13	11	90				79950	1638.00	48.81
FC3	26022	13	11	90				104350	1568.00	66.55
FC4	26023	13	11	90				171550	1646.00	104.22
FC5	26024	13	11	90				186300	1620.00	115.00
FC1	26026	25	11	90				51550	1616.00	31.90
FC2	26027	25	11	90				41350	1633.00	25.32
FC3	26029	25	11	90				40200	1567.00	25.65
FC4	26030	25	11	90				45800	1642.00	27.89
FC5	26031	25	11	90				50000	1616.00	30.94
FC1	26033	7	12	90				74700	1616.00	46.23
FC2	26034	7	12	90				71100	1629.00	43.65
FC3	26036	7	12	90				67700	1566.00	43.23
FC4	26037	7	12	90				76050	1642.00	46.32
FC5	26038	7	12	90				78400	1617.00	48.48
FC1	26040	19	12	90				30450	1620.00	18.80
FC2	26041	19	12	90				31550	1629.00	19.37
FC3	26043	19	12	90				21100	1569.00	13.45
FC4	26044	19	12	90				28800	1642.00	17.54
FC5	26045	19	12	90				31900	1617.00	19.73
FC1	26047	31	12	90				50700	1625.00	31.20
FC2	26048	31	12	90				50550	1645.00	30.73
FC3	26050	31	12	90				47600	1591.00	29.92
FC4	26004	31	12	90				52600	1651.00	31.86
FC5	26005	31	12	90				52000	1624.00	32.02
FC1	26008	12	1	91				58300	1617.00	36.05
FC2	26009	12	1	91				55550	1630.00	34.08
FC3	26011	12	1	91				48800	1567.00	31.14
FC4	26012	12	1	91				57000	1644.00	34.67
FC5	26013	12	1	91				74150	1616.00	45.88

## SRANNTSP.XLS

AQ1	Q752	24	1	91	1457.6	20.0	24.56	81000	1661.31	48.76	
AQ10	Q768	24	1	91	1439.4	20.0	24.56	49000	1607.96	30.47	
AQ11	Q770	24	1	91	1445.7	20.0	24.56	51000	1617.05	31.54	
AQ12	Q771	24	1	91	1463.8	20.0	24.56	46000	1612.42	28.53	
AQ2	Q754	24	1	91	1446.0	20.0	24.56	81000	1641.95	49.33	
AQ3	Q756	24	1	91	1456.3	20.0	24.56	48000	1608.28	29.85	
AQ4	Q758	24	1	91	1444.1	20.0	24.56	36000	1641.84	21.93	
AQ5	Q759	24	1	91	1444.5	20.0	24.56	77000	1599.34	48.14	
AQ5-	Q760	24	1	91	1448.3	20.0	24.56	61000	1622.01	37.61	
AQ6	Q763	24	1	91	1448.6	20.0	24.56	48000	1628.49	29.48	
AQ7	Q764	24	1	91	1448.7	20.0	24.56	66000	1614.25	40.89	
AQ8	Q765	24	1	91	1444.8	20.0	24.56	42000	1624.22	25.86	
AQ9	Q766	24	1	91	1450.2	20.0	24.56	40000	1636.45	24.44	
FC1	Q773	24	1	91	1449.6	20.0	24.56	49000	1641.93	29.84	
FC3	Q774	24	1	91	1470.0	20.0	24.56	48000	1665.04	28.83	
FC4	Q775	24	1	91	1442.4	20.0	24.56	52000	1633.78	31.83	
FC5	Q776	24	1	91	1443.6	20.0	24.56	51000	1635.14	31.19	
AQ1	Q779	30	1	91	1456.9	35.0	24.62	99000	1660.52	59.62	
AQ11	Q797	30	1	91	1445.3	35.0	24.62	49000	1616.60	30.31	
AQ12	Q798	30	1	91	1464.4	35.0	24.62	43000	1613.08	26.66	
AQ2	Q781	30	1	91	1447.1	35.0	24.62	120000	1643.20	73.03	
AQ3	Q783	30	1	91	1457.0	35.0	24.62	45000	1609.06	27.97	
AQ4	Q785	30	1	91	1445.3	35.0	24.62	42000	1643.20	25.56	
AQ5	Q786	30	1	91	1444.2	35.0	24.62	120000	1599.01	75.05	
AQ5-	Q787	30	1	91	1449.0	35.0	24.62	110000	1622.79	67.78	
AQ6	Q790	30	1	91	1449.9	35.0	24.62	56000	1629.96	34.36	
AQ7	Q791	30	1	91	1451.6	35.0	24.62	65000	1617.48	40.19	
AQ8	Q792	30	1	91	1445.0	35.0	24.62	55000	1624.45	33.86	
AQ9	Q793	30	1	91	1451.6	35.0	24.62	46000	1638.03	28.08	
AQ1	Q806	5	2	91	1456.8	42.0	24.77	140000	1660.40	84.32	
AQ10	Q822	5	2	91	1438.4	42.0	24.77	78000	1606.84	48.54	
AQ11	Q824	5	2	91	1444.8	42.0	24.77	84000	1616.04	51.98	
AQ12	Q825	5	2	91	1464.5	42.0	24.77	80000	1613.19	49.59	
AQ2	Q808	5	2	91	1447.6	42.0	24.77	97000	1643.77	59.01	
AQ3	Q810	5	2	91	1453.8	42.0	24.77	66000	1605.52	41.11	
AQ4	Q812	5	2	91	1445.1	42.0	24.77	70000	1642.97	42.61	
AQ5	Q813	5	2	91	1445.2	42.0	24.77	160000	1600.12	99.99	
AQ5-	Q814	5	2	91	1449.0	42.0	24.77	97000	1622.79	59.77	
AQ6	Q817	5	2	91	1448.7	42.0	24.77	76000	1628.61	46.67	
AQ7	Q818	5	2	91	1448.8	42.0	24.77	88000	1614.36	54.51	
AQ8	Q819	5	2	91	1444.1	42.0	24.77	82000	1623.44	50.51	
AQ9	Q820	5	2	91	1452.0	42.0	24.77	75000	1638.48	45.77	
FC1	Q800	5	2	91	1448.4	42.0	24.77	78000	1646.73	47.37	
FC3	Q802	5	2	91	1450.2	42.0	24.77	77000	1583.07	48.64	
FC4	Q804	5	2	91	1442.4	42.0	24.77	83000	1613.36	51.45	
FC5	Q805	5	2	91	1450.2	42.0	24.77	110000	1609.76	68.33	
AQ1	Q827	11	2	91	1430.7	45.0	24.74	110000	1630.65	67.46	
AQ11	Q845	11	2	91	1442.7	45.0	24.74	73000	1613.69	45.24	
AQ12	Q846	11	2	91	1444.3	45.0	24.74	61000	1590.94	38.34	
AQ2	Q829	11	2	91	1443.5	45.0	24.74	71000	1639.11	43.32	
AQ3	Q831	11	2	91	1446.9	45.0	24.74	51000	1597.90	31.92	



## SRANNTSP.XLS

AQ4	Q833	11	2	91	1444.3	45.0	24.74	63000	1642.06	38.37	
AQ5	Q834	11	2	91	1448.1	45.0	24.74	130000	1603.33	81.08	
AQ5-	Q835	11	2	91	1447.9	45.0	24.74	110000	1621.56	67.84	
AQ6	Q838	11	2	91	1436.4	45.0	24.74	63000	1614.78	39.01	
AQ7	Q839	11	2	91	1436.7	45.0	24.74	74000	1600.88	46.22	
AQ8	Q840	11	2	91	1441.6	45.0	24.74	62000	1620.62	38.26	
AQ9	Q842	11	2	91	1432.3	45.0	24.74	53000	1616.25	32.79	
AQ1	Q848	17	2	91	1430.7	39.0	24.31	54000	1630.65	33.12	
AQ10	Q864	17	2	91	1447.3	39.0	24.31	43000	1616.79	26.60	
AQ11	Q866	17	2	91	1441.5	39.0	24.31	39000	1612.35	24.19	
AQ12	Q867	17	2	91	1442.2	39.0	24.31	37000	1588.63	23.29	
AQ2	Q850	17	2	91	1448.2	39.0	24.31	69000	1644.45	41.96	
AQ3	Q852	17	2	91	1444.9	39.0	24.31	38000	1595.69	23.81	
AQ4	Q854	17	2	91	1441.8	39.0	24.31	41000	1639.22	25.01	
AQ5	Q855	17	2	91	1441.3	39.0	24.31	56000	1595.80	35.09	
AQ5-	Q856	17	2	91	1449.0	39.0	24.31	48000	1622.79	29.58	
AQ6	Q859	17	2	91	1435.0	39.0	24.31	40000	1613.21	24.80	
AQ7	Q860	17	2	91	1450.0	39.0	24.31	41000	1615.70	25.38	
AQ8	Q861	17	2	91	1442.9	39.0	24.31	38000	1622.09	23.43	
AQ9	Q862	17	2	91	1466.0	39.0	24.31	33000	1654.28	19.95	
FC1	Q869	17	2	91	1440.0	39.0	24.31	38000	1637.18	23.21	
FC3	Q871	17	2	91	1468.2	39.0	24.31	34000	1602.72	21.21	
FC4	Q873	17	2	91	1440.0	39.0	24.31	37000	1610.67	22.97	
FC5	Q874	17	2	91	1456.8	39.0	24.31	38000	1617.09	23.50	
AQ1	Q875	23	2	91	1429.1	36.0	24.65	97000	1628.83	59.55	
AQ10	Q891	23	2	91	1442.0	36.0	24.65	67000	1610.87	41.59	
AQ11	Q893	23	2	91	1444.5	36.0	24.65	75000	1615.70	46.42	
AQ12	Q894	23	2	91	1444.6	36.0	24.65	77000	1591.27	48.39	
AQ2	Q877	23	2	91	1448.7	36.0	24.65	110000	1645.02	66.87	
AQ3	Q879	23	2	91	1447.4	36.0	24.65	64000	1598.46	40.04	
AQ4	Q881	23	2	91	1445.3	36.0	24.65	58000	1643.20	35.30	
AQ5	Q882	23	2	91	1444.5	36.0	24.65	87000	1599.34	54.40	
AQ5-	Q883	23	2	91	1448.5	36.0	24.65	73000	1622.23	45.00	
AQ6	Q886	23	2	91	1437.2	36.0	24.65	63000	1615.68	38.99	
AQ7	Q887	23	2	91	1451.4	36.0	24.65	83000	1617.26	51.32	
AQ8	Q888	23	2	91	1441.7	36.0	24.65	60000	1620.74	37.02	
AQ9	Q889	23	2	91	1467.8	36.0	24.65	59000	1656.31	35.62	
AQ1	Q896	1	3	91	1427.8	44.0	24.13	98000	1627.35	60.22	
AQ10	Q912	1	3	91	1443.6	44.0	24.13	95000	1612.65	58.91	
AQ11	Q914	1	3	91	1439.4	44.0	24.13	72000	1610.00	44.72	
AQ12	Q915	1	3	91	1444.7	44.0	24.13	67000	1591.38	42.10	
AQ2	Q898	1	3	91	1448.9	44.0	24.13	140000	1645.24	85.09	
AQ3	Q900	1	3	91	1447.0	44.0	24.13	74000	1598.01	46.31	
AQ4	Q902	1	3	91	1444.4	44.0	24.13	83000	1642.18	50.54	
AQ5	Q903	1	3	91	1442.9	44.0	24.13	88000	1597.57	55.08	
AQ5-	Q904	1	3	91	1448.4	44.0	24.13	84000	1622.12	51.78	
AQ6	Q907	1	3	91	1435.2	44.0	24.13	74000	1613.43	45.87	
AQ7	Q908	1	3	91	1454.4	44.0	24.13	68000	1620.60	41.96	
AQ8	Q909	1	3	91	1441.9	44.0	24.13	77000	1620.96	47.50	
AQ9	Q910	1	3	91	1466.8	44.0	24.13	58000	1655.18	35.04	
FC1	Q917	1	3	91	1444.8	44.0	24.13	80000	1642.63	48.70	

## SRANNTSP.XLS

FC2	Q923	1	3	91	1437.6	44.0	24.13	77000	1491.97	51.61	
FC3	Q919	1	3	91	1453.8	44.0	24.13	62000	1587.00	39.07	
FC4	Q921	1	3	91	1437.6	44.0	24.13	67000	1607.99	41.67	
FC5	Q922	1	3	91	1447.8	44.0	24.13	82000	1607.10	51.02	
AQ1	Q924	7	3	91	1441.4	31.0	24.50	41000	1642.85	24.96	
AQ10	Q940	7	3	91	1443.9	31.0	24.50	26000	1612.99	16.12	
AQ11	Q942	7	3	91	1446.4	31.0	24.50	29000	1617.83	17.93	
AQ12	Q943	7	3	91	1444.9	31.0	24.50	29000	1591.60	18.22	
AQ2	Q926	7	3	91	1443.7	31.0	24.50	64000	1639.34	39.04	
AQ3	Q928	7	3	91	1445.5	31.0	24.50	29000	1596.36	18.17	
AQ4	Q930	7	3	91	1444.9	31.0	24.50	22000	1642.75	13.39	
AQ5	Q931	7	3	91	1441.2	31.0	24.50	30000	1595.69	18.80	
AQ5-	Q932	7	3	91	1449.2	31.0	24.50	28000	1623.01	17.25	
AQ6	Q935	7	3	91	1437.2	31.0	24.50	22000	1615.68	13.62	
AQ7	Q936	7	3	91	1434.5	31.0	24.50	25000	1598.43	15.64	
AQ8	Q937	7	3	91	1444.0	31.0	24.50	22000	1623.32	13.55	
AQ9	Q938	7	3	91	1435.4	31.0	24.50	21000	1619.75	12.96	
AQ1	Q945	13	3	91	1441.9	37.0	24.56	49000	1643.42	29.82	
AQ10	Q961	13	3	91	1442.7	37.0	24.56	32000	1611.65	19.86	
AQ11	Q963	13	3	91	1445.7	37.0	24.56	41000	1617.05	25.35	
AQ12	Q964	13	3	91	1445.0	37.0	24.56	41000	1591.71	25.76	
AQ2	Q947	13	3	91	1450.4	37.0	24.56	56000	1646.95	34.00	
AQ3	Q949	13	3	91	1448.2	37.0	24.56	35000	1599.34	21.88	
AQ4	Q951	13	3	91	1445.1	37.0	24.56	37000	1642.97	22.52	
AQ5	Q952	13	3	91	1441.6	37.0	24.56	42000	1596.13	26.31	
AQ5-	Q953	13	3	91	1449.0	37.0	24.56	38000	1622.79	23.42	
AQ6	Q956	13	3	91	1436.9	37.0	24.56	31000	1615.34	19.19	
AQ7	Q957	13	3	91	1433.5	37.0	24.56	40000	1597.31	25.04	
AQ8	Q958	13	3	91	1444.2	37.0	24.56	34000	1623.55	20.94	
AQ9	Q959	13	3	91	1435.4	37.0	24.56	34000	1619.75	20.99	
FC1	Q966	13	3	91	1451.4	37.0	24.56	40000	1650.14	24.24	
FC2	Q968	13	3	91	1443.0	37.0	24.56	38000	1497.57	25.37	
FC3	Q969	13	3	91	1457.4	37.0	24.56	34000	1590.93	21.37	
FC4	Q971	13	3	91	1442.4	37.0	24.56	35000	1613.36	21.69	
FC5	Q972	13	3	91	1453.2	37.0	24.56	43000	1613.09	26.66	
AQ1	Q973	19	3	91	1442.0	46.0	24.33	140000	1643.53	85.18	
AQ10	Q989	19	3	91	1445.8	46.0	24.33	140000	1615.11	86.68	
AQ11	Q991	19	3	91	1446.9	46.0	24.33	400000	1618.39	247.16	
AQ12	Q992	19	3	91	1443.0	46.0	24.33	140000	1589.51	88.08	
AQ2	Q975	19	3	91	1446.3	46.0	24.33	140000	1642.29	85.25	
AQ3	Q978	19	3	91	1446.9	46.0	24.33	37000	1597.90	23.16	
AQ4	Q979	19	3	91	1446.7	46.0	24.33	130000	1644.79	79.04	
AQ5	Q980	19	3	91	1441.5	46.0	24.33	150000	1596.02	93.98	
AQ5-	Q981	19	3	91	1448.8	46.0	24.33	140000	1622.57	86.28	
AQ6	Q984	19	3	91	1435.5	46.0	24.33	99000	1613.77	61.35	
AQ7	Q985	19	3	91	1443.4	46.0	24.33	130000	1608.34	80.83	
AQ8	Q986	19	3	91	1444.1	46.0	24.33	160000	1623.44	98.56	
AQ9	Q987	19	3	91	1472.4	46.0	24.33	160000	1661.50	96.30	
AQ1	Q994	25	3	91	1441.6	55.0	24.35	74000	1643.08	45.04	
AQ10	Q1013	25	3	91	1442.6	55.0	24.35	45000	1611.54	27.92	
AQ11	Q1015	25	3	91	1451.8	55.0	24.35	43000	1623.87	26.48	

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AQ12	Q1016	25	3	91	1442.1	55.0	24.35	54000	1588.52	33.99	
AQ2	Q996	25	3	91	1450.4	55.0	24.35	59000	1646.95	35.82	
AQ3	Q998	25	3	91	1445.5	55.0	24.35	42000	1596.36	26.31	
AQ4	Q1003	25	3	91	1445.3	55.0	24.35	36000	1643.20	21.91	
AQ5	Q1004	25	3	91	1441.7	55.0	24.35	57000	1596.24	35.71	
AQ5-	Q1005	25	3	91	1448.9	55.0	24.35	49000	1622.68	30.20	
AQ6	Q1008	25	3	91	1446.7	55.0	24.35	38000	1626.36	23.37	
AQ8	Q1010	25	3	91	1456.0	55.0	24.35	44000	1636.81	26.88	
AQ9	Q1011	25	3	91	1452.9	55.0	24.35	36000	1639.50	21.96	
FC1	Q1018	25	3	91	1449.6	55.0	24.35	42000	1648.09	25.48	
FC2	Q1020	25	3	91	1442.4	55.0	24.35	50000	1496.95	33.40	
FC3	Q1021	25	3	91	1467.6	55.0	24.35	37000	1602.06	23.10	
FC4	Q1023	25	3	91	1443.0	55.0	24.35	44000	1614.03	27.26	
AQ1	Q1025	31	3	91	1440.7	49.0	24.80	29000	1642.05	17.66	
AQ10	Q1041	31	3	91	1442.7	49.0	24.80	24000	1611.65	14.89	
AQ11	Q1043	31	3	91	1445.9	49.0	24.80	25000	1617.27	15.46	
AQ12	Q1044	31	3	91	1446.1	49.0	24.80	29000	1592.92	18.21	
AQ2	Q1027	31	3	91	1450.8	49.0	24.80	26000	1647.40	15.78	
AQ3	Q1029	31	3	91	1447.0	49.0	24.80	21000	1598.01	13.14	
AQ4	Q1031	31	3	91	1444.4	49.0	24.80	20000	1642.18	12.18	
AQ5	Q1032	31	3	91	1439.5	49.0	24.80	30000	1593.81	18.82	
AQ5-	Q1033	31	3	91	1447.9	49.0	24.80	29000	1621.56	17.88	
AQ6	Q1036	31	3	91	1448.2	49.0	24.80	24000	1628.04	14.74	
AQ7	Q1037	31	3	91	1455.8	49.0	24.80	25000	1622.16	15.41	
AQ8	Q1038	31	3	91	1452.6	49.0	24.80	23000	1632.99	14.08	
AQ9	Q1039	31	3	91	1451.7	49.0	24.80	22000	1638.15	13.43	
QI1	Q1086	4	4	91	1404.6	56.0	24.77	120000	1610.85	74.49	
QI2	Q1052	4	4	91	1433.4	56.0	24.77	38000	1585.02	23.97	
AQ1	Q1054	6	4	91	1441.1	66.0	24.48	74000	1642.51	45.05	
AQ10	Q1070	6	4	91	1444.1	66.0	24.48	56000	1613.21	34.71	
AQ11	Q1072	6	4	91	1447.9	66.0	24.48	100000	1619.51	61.75	
AQ12	Q1073	6	4	91	1443.1	66.0	24.48	66000	1589.62	41.52	
AQ2	Q1056	6	4	91	1450.1	66.0	24.48	78000	1646.61	47.37	
AQ3	Q1058	6	4	91	1442.9	66.0	24.48	62000	1593.49	38.91	
AQ4	Q1060	6	4	91	1444.1	66.0	24.48	56000	1641.84	34.11	
AQ5	Q1061	6	4	91	1442.4	66.0	24.48	53000	1597.02	33.19	
AQ5-	Q1064	6	4	91	1451.4	66.0	24.48	19000	1625.48	11.69	
AQ6	Q1065	6	4	91	1446.8	66.0	24.48	42000	1626.47	25.82	
AQ7	Q1066	6	4	91	1444.1	66.0	24.48	66000	1609.12	41.02	
AQ8	Q1067	6	4	91	1452.4	66.0	24.48	44000	1632.77	26.95	
AQ9	Q1068	6	4	91	1449.8	66.0	24.48	43000	1636.00	26.28	
FC1	Q1080	6	4	91	1449.0	66.0	24.48	69000	1647.41	41.88	
FC5	Q1083	6	4	91	1448.4	66.0	24.48	100000	1607.76	62.20	
QI1	Q1076	6	4	91	1455.0	66.0	24.48	82000	1668.65	49.14	
QI2	Q1078	6	4	91	1420.2	66.0	24.48	58000	1570.43	36.93	
AQ1	Q1109	12	4	91	1439.0	30.0	24.53	22000	1640.11	13.41	
AQ10	Q1104	12	4	91	1444.3	30.0	24.53	15000	1613.44	9.30	
AQ11	Q1106	12	4	91	1442.5	30.0	24.53	16000	1613.47	9.92	
AQ12	Q1107	12	4	91	1444.5	30.0	24.53	15000	1591.16	9.43	
AQ2	Q1089	12	4	91	1443.4	30.0	24.53	33000	1639.00	20.13	
AQ3	Q1091	12	4	91	1446.3	30.0	24.53	16000	1597.24	10.02	

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AQ4	Q1093	12	4	91	1437.9	30.0	24.53	15000	1634.79	9.18
AQ5	Q1094	12	4	91	1440.7	30.0	24.53	20000	1595.14	12.54
AQ5-	Q1095	12	4	91	1442.8	30.0	24.53	17000	1615.85	10.52
AQ6	Q1098	12	4	91	1441.0	30.0	24.53	16000	1619.95	9.88
AQ7	Q1099	12	4	91	1441.3	30.0	24.53	18000	1606.00	11.21
AQ8	Q1100	12	4	91	1448.3	30.0	24.53	15000	1628.16	9.21
AQ9	Q1101	12	4	91	1447.5	30.0	24.53	16000	1633.41	9.80
QI1	Q1085	12	4	91	1400.4	30.0	24.53	20000	1606.03	12.45
QI2	Q1112	12	4	91	1435.2	30.0	24.53	15000	1587.01	9.45
AQ1	Q1114	18	4	91	1442.3	41.0	24.56	110000	1643.87	66.92
AQ10	Q1130	18	4	91	1442.1	41.0	24.56	100000	1610.98	62.07
AQ11	Q1132	18	4	91	1444.2	41.0	24.56	130000	1615.37	80.48
AQ12	Q1133	18	4	91	1443.0	41.0	24.56	91000	1589.51	57.25
AQ2	Q1116	18	4	91	1445.4	41.0	24.56	150000	1641.27	91.39
AQ3	Q1118	18	4	91	1445.0	41.0	24.56	82000	1595.80	51.38
AQ4	Q1120	18	4	91	1442.2	41.0	24.56	78000	1639.68	47.57
AQ5	Q1121	18	4	91	1447.8	41.0	24.56	97000	1603.00	60.51
AQ5-	Q1122	18	4	91	1449.1	41.0	24.56	89000	1622.90	54.84
AQ6	Q1125	18	4	91	1446.6	41.0	24.56	88000	1626.25	54.11
AQ7	Q1126	18	4	91	1446.7	41.0	24.56	89000	1612.02	55.21
AQ8	Q1127	18	4	91	1450.8	41.0	24.56	80000	1630.97	49.05
AQ9	Q1128	18	4	91	1451.6	41.0	24.56	80000	1638.03	48.84
FC1	Q1135	18	4	91	1449.6	41.0	24.56	95000	1648.09	57.64
FC2	Q1137	18	4	91	1441.8	41.0	24.56	91000	1496.33	60.82
FC5	Q1138	18	4	91	1449.6	41.0	24.56	89000	1609.09	55.31
QI1	Q1139	18	4	91	1442.4	41.0	24.56	91000	1654.20	55.01
QI2	Q1141	18	4	91	1426.2	41.0	24.56	94000	1577.06	59.60
AQ1	Q1145	24	4	91	1442.5	52.0	24.49	55000	1644.10	33.45
AQ11	Q1164	24	4	91	1443.9	52.0	24.49	40000	1615.03	24.77
AQ12	Q1165	24	4	91	1443.5	52.0	24.49	49000	1590.06	30.82
AQ2	Q1147	24	4	91	1446.3	52.0	24.49	64000	1642.29	38.97
AQ3	Q1149	24	4	91	1444.8	52.0	24.49	36000	1595.58	22.56
AQ4	Q1151	24	4	91	1445.0	52.0	24.49	37000	1642.86	22.52
AQ5	Q1152	24	4	91	1445.2	52.0	24.49	55000	1600.12	34.37
AQ5-	Q1153	24	4	91	1448.7	52.0	24.49	5000	1622.45	3.08
AQ6	Q1157	24	4	91	1448.8	52.0	24.49	44000	1628.72	27.02
AQ7	Q1158	24	4	91	1446.6	52.0	24.49	40000	1611.91	24.82
AQ8	Q1159	24	4	91	1455.2	52.0	24.49	43000	1635.91	26.29
AQ9	Q1160	24	4	91	1452.2	52.0	24.49	34000	1638.71	20.75
QI1	Q1167	24	4	91	1474.2	52.0	24.49	43000	1690.67	25.43
QI2	Q1169	24	4	91	1421.4	52.0	24.49	34000	1571.75	21.63
AQ1	Q1172	30	4	91	1441.7	38.0	24.67	38000	1643.19	23.13
AQ10	Q1188	30	4	91	1444.9	38.0	24.67	35000	1614.11	21.68
AQ11	Q1190	30	4	91	1444.7	38.0	24.67	35000	1615.93	21.66
AQ12	Q1191	30	4	91	1441.1	38.0	24.67	31000	1587.42	19.53
AQ2	Q1175	30	4	91	1443.9	38.0	24.67	36000	1639.57	21.96
AQ3	Q1176	30	4	91	1445.5	38.0	24.67	26000	1596.36	16.29
AQ4	Q1178	30	4	91	1443.2	38.0	24.67	26000	1640.81	15.85
AQ5	Q1179	30	4	91	1445.5	38.0	24.67	43000	1600.45	26.87
AQ5-	Q1180	30	4	91	1447.6	38.0	24.67	38000	1621.22	23.44
AQ6	Q1183	30	4	91	1449.3	38.0	24.67	33000	1629.28	20.25

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AQ7	Q1184	30	4	91	1448.7	38.0	24.67	33000	1614.25	20.44	
AQ8	Q1185	30	4	91	1455.2	38.0	24.67	34000	1635.91	20.78	
AQ9	Q1186	30	4	91	1452.2	38.0	24.67	29000	1638.71	17.70	
FC1	Q1197	30	4	91	1449.6	38.0	24.67	31000	1648.09	18.81	
FC2	Q1199	30	4	91	1440.6	38.0	24.67	32000	1495.08	21.40	
FC3	Q1200	30	4	91	1453.2	38.0	24.67	31000	1586.34	19.54	
FC4	Q1201	30	4	91	1442.4	38.0	24.67	33000	1613.36	20.45	
FC5	Q1202	30	4	91	1464.6	38.0	24.67	33000	1625.74	20.30	
QI1	Q1193	30	4	91	1462.2	38.0	24.67	36000	1676.91	21.47	
QI2	Q1195	30	4	91	1424.4	38.0	24.67	30000	1575.07	19.05	
AQ1	Q1203	6	5	91	1441.7	54.0	24.65	46000	1643.19	27.99	
AQ10	Q1219	6	5	91	1443.1	54.0	24.65	38000	1612.10	23.57	
AQ11	Q1221	6	5	91	1445.8	54.0	24.65	38000	1617.16	23.50	
AQ12	Q1222	6	5	91	1442.1	54.0	24.65	32000	1588.52	20.14	
AQ2	Q1205	6	5	91	1443.5	54.0	24.65	47000	1639.11	28.67	
AQ3	Q1207	6	5	91	1446.9	54.0	24.65	31000	1597.90	19.40	
AQ4	Q1209	6	5	91	1446.8	54.0	24.65	31000	1644.91	18.85	
AQ5	Q1210	6	5	91	1441.4	54.0	24.65	47000	1595.91	29.45	
AQ5-	Q1211	6	5	91	1446.8	54.0	24.65	42000	1620.33	25.92	
AQ6	Q1214	6	5	91	1447.4	54.0	24.65	34000	1627.15	20.90	
AQ7	Q1215	6	5	91	1449.1	54.0	24.65	36000	1614.69	22.30	
AQ8	Q1216	6	5	91	1452.8	54.0	24.65	33000	1633.22	20.21	
AQ9	Q1217	6	5	91	1452.3	54.0	24.65	29000	1638.82	17.70	
QI1	Q1224	6	5	91	1421.4	54.0	24.65	41000	1630.12	25.15	
QI2	Q1226	6	5	91	1419.6	54.0	24.65	30000	1569.76	19.11	
AQ1	Q1229	12	5	91	1439.0	58.0	24.60	72000	1613.63	44.62	
AQ10	Q1245	12	5	91	1442.0	58.0	24.60	69000	1637.41	42.14	
AQ11	Q1247	12	5	91	1441.5	58.0	24.60	68000	1604.18	42.39	
AQ12	Q1248	12	5	91	1440.5	58.0	24.60	88000	1605.11	54.82	
AQ2	Q1231	12	5	91	1445.2	58.0	24.60	110000	1604.21	68.57	
AQ3	Q1233	12	5	91	1444.2	58.0	24.60	86000	1619.46	53.10	
AQ4	Q1235	12	5	91	1438.9	58.0	24.60	66000	1578.88	41.80	
AQ5	Q1236	12	5	91	1447.3	58.0	24.60	78000	1608.59	48.49	
AQ5-	Q1237	12	5	91	1450.4	58.0	24.60	71000	1620.25	43.82	
AQ6	Q1240	12	5	91	1441.1	58.0	24.60	80000	1628.22	49.13	
AQ7	Q1241	12	5	91	1443.7	58.0	24.60	70000	1633.21	42.86	
AQ8	Q1242	12	5	91	1447.4	58.0	24.60	66000	1614.85	40.87	
AQ9	Q1243	12	5	91	1446.5	58.0	24.60	64000	1632.28	39.21	
FC1	Q1254	12	5	91	1495.2	58.0	24.60	66000	1663.95	39.66	
FC2	Q1256	12	5	91	1441.8	58.0	24.60	75000	1639.22	45.75	
FC5	Q1258	12	5	91	1446.6	58.0	24.60	75000	1618.05	46.35	
QI1	Q1250	12	5	91	1401.6	58.0	24.60	75000	1559.78	48.08	
QI2	Q1252	12	5	91	1412.4	58.0	24.60	70000	1549.80	45.17	
AQ1	Q1259	18	5	91	1440.7	63.0	24.62	74000	1615.53	45.81	
AQ10	Q1276	18	5	91	1445.9	63.0	24.62	77000	1641.84	46.90	
AQ11	Q1278	18	5	91	1444.3	63.0	24.62	170000	1607.30	105.77	
AQ12	Q1279	18	5	91	1440.9	63.0	24.62	92000	1605.56	57.30	
AQ2	Q1261	18	5	91	1466.5	63.0	24.62	74000	1627.85	45.46	
AQ3	Q1263	18	5	91	1442.8	63.0	24.62	89000	1617.89	55.01	
AQ4	Q1265	18	5	91	1445.5	63.0	24.62	77000	1586.12	48.55	
AQ5	Q1266	18	5	91	1444.3	63.0	24.62	94000	1605.26	58.56	

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AQ5-	Q1267	18	5	91	1446.7	63.0	24.62	81000	1616.12	50.12	
AQ6	Q1271	18	5	91	1448.5	63.0	24.62	87000	1636.59	53.16	
AQ7	Q1272	18	5	91	1449.8	63.0	24.62	78000	1640.11	47.56	
AQ8	Q1273	18	5	91	1453.7	63.0	24.62	87000	1621.88	53.64	
AQ9	Q1274	18	5	91	1451.3	63.0	24.62	73000	1637.69	44.57	
QI1	Q1281	18	5	91	1423.2	63.0	24.62	87000	1583.82	54.93	
QI2	Q1283	18	5	91	1410.6	63.0	24.62	87000	1547.83	56.21	
AQ1	Q1285	24	5	91	1437.0	57.0	24.73	42000	1611.38	26.06	
AQ10	Q1302	24	5	91	1439.3	57.0	24.73	32000	1634.34	19.58	
AQ11	Q1304	24	5	91	1446.4	57.0	24.73	30000	1609.64	18.64	
AQ12	Q1305	24	5	91	1445.2	57.0	24.73	33000	1610.35	20.49	
AQ2	Q1287	24	5	91	1438.2	57.0	24.73	55000	1596.44	34.45	
AQ3	Q1289	24	5	91	1446.7	57.0	24.73	32000	1622.26	19.73	
AQ4	Q1292	24	5	91	1438.5	57.0	24.73	26000	1578.44	16.47	
AQ5	Q1293	24	5	91	1444.7	57.0	24.73	37000	1605.70	23.04	
AQ5-	Q1294	24	5	91	1445.7	57.0	24.73	33000	1615.00	20.43	
AQ6	Q1297	24	5	91	1440.8	57.0	24.73	35000	1627.89	21.50	
AQ7	Q1298	24	5	91	1442.6	57.0	24.73	31000	1631.96	19.00	
AQ8	Q1299	24	5	91	1445.3	57.0	24.73	29000	1612.51	17.98	
AQ9	Q1300	24	5	91	1444.4	57.0	24.73	28000	1629.91	17.18	
FC1	Q1310	24	5	91	1453.2	57.0	24.73	30000	1617.21	18.55	
FC2	Q1312	24	5	91	1440.0	57.0	24.73	32000	1637.18	19.55	
FC3	Q1313	24	5	91	1449.6	57.0	24.73	31000	1656.30	18.72	
FC4	Q1314	24	5	91	1443.0	57.0	24.73	33000	819.27	40.28	
FC5	Q1315	24	5	91	1449.0	57.0	24.73	31000	1620.74	19.13	
QI1	Q1306	24	5	91	1401.6	57.0	24.73	29000	1559.78	18.59	
QI2	Q1308	24	5	91	1413.0	57.0	24.73	30000	1550.46	19.35	
AQ1	Q1316	30	5	91	1440.3	63.0	24.29	100000	1615.09	61.92	
AQ10	Q1332	30	5	91	1442.9	63.0	24.29	87000	1638.43	53.10	
AQ11	Q1334	30	5	91	1445.9	63.0	24.29	92000	1609.08	57.18	
AQ12	Q1335	30	5	91	1444.3	63.0	24.29	95000	1609.35	59.03	
AQ2	Q1318	30	5	91	1443.7	63.0	24.29	120000	1602.55	74.88	
AQ3	Q1320	30	5	91	1444.5	63.0	24.29	100000	1619.79	61.74	
AQ4	Q1322	30	5	91	1443.8	63.0	24.29	79000	1584.26	49.87	
AQ5	Q1323	30	5	91	1445.1	63.0	24.29	94000	1606.15	58.53	
AQ5-	Q1324	30	5	91	1447.7	63.0	24.29	82000	1617.23	50.70	
AQ6	Q1327	30	5	91	1448.1	63.0	24.29	98000	1636.13	59.90	
AQ7	Q1328	30	5	91	1451.6	63.0	24.29	88000	1642.14	53.59	
AQ8	Q1329	30	5	91	1451.3	63.0	24.29	100000	1619.20	61.76	
AQ9	Q1330	30	5	91	1452.2	63.0	24.29	83000	1638.71	50.65	
QI1	Q1337	30	5	91	1427.4	63.0	24.29	93000	1588.49	58.55	
AQ1	Q1341	5	6	91	1441.0	65.0	24.75	52000	1615.87	32.18	
AQ10	Q1357	5	6	91	1441.8	65.0	24.75	53000	1637.18	32.37	
AQ11	Q1359	5	6	91	1446.0	65.0	24.75	54000	1609.19	33.56	
AQ12	Q1360	5	6	91	1444.0	65.0	24.75	63000	1609.01	39.15	
AQ2	Q1343	5	6	91	1446.6	65.0	24.75	69000	1605.76	42.97	
AQ3	Q1345	5	6	91	1446.7	65.0	24.75	68000	1622.26	41.92	
AQ4	Q1347	5	6	91	1443.9	65.0	24.75	46000	1584.37	29.03	
AQ5	Q1348	5	6	91	1445.2	65.0	24.75	53000	1606.26	33.00	
AQ5-	Q1349	5	6	91	1445.6	65.0	24.75	47000	1614.89	29.10	
AQ6	Q1352	5	6	91	1448.3	65.0	24.75	54000	1636.36	33.00	

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AQ7	Q1353	5	6	91	1450.9	65.0	24.75	48000	1641.35	29.24	
AQ8	Q1354	5	6	91	1451.5	65.0	24.75	58000	1619.42	35.82	
AQ9	Q1355	5	6	91	1450.9	65.0	24.75	49000	1637.24	29.93	
FC1	Q1362	5	6	91	1448.4	65.0	24.75	53000	1611.86	32.88	
FC2	Q1364	5	6	91	1441.8	65.0	24.75	61000	1639.22	37.21	
FC5	Q1365	5	6	91	1448.4	65.0	24.75	79000	1620.07	48.76	
QI1	Q1366	5	6	91	1424.4	65.0	24.75	100000	1585.16	63.09	
QI2	Q1368	5	6	91	1412.4	65.0	24.75	55000	1549.80	35.49	
AQ1	Q1370	11	6	91	1442.6	68.0	24.71	59000	1617.66	36.47	
AQ10	Q1387	11	6	91	1439.5	68.0	24.71	55000	1634.57	33.65	
AQ11	Q1389	11	6	91	1441.7	68.0	24.71	64000	1604.41	39.89	
AQ12	Q1390	11	6	91	1440.4	68.0	24.71	63000	1605.00	39.25	
AQ3	Q1374	11	6	91	1442.2	68.0	24.71	58000	1617.22	35.86	
AQ4	Q1376	11	6	91	1440.0	68.0	24.71	54000	1580.09	34.18	
AQ5	Q1377	11	6	91	1442.9	68.0	24.71	57000	1603.70	35.54	
AQ5-	Q1378	11	6	91	1446.8	68.0	24.71	50000	1616.23	30.94	
AQ6	Q1382	11	6	91	1449.0	68.0	24.71	61000	1637.15	37.26	
AQ7	Q1383	11	6	91	1447.0	68.0	24.71	52000	1636.94	31.77	
AQ8	Q1384	11	6	91	1447.1	68.0	24.71	52000	1614.51	32.21	
AQ9	Q1385	11	6	91	1449.9	68.0	24.71	55000	1636.11	33.62	
FC1	Q1392	11	6	91	1449.0	68.0	24.71	57000	1612.53	35.35	
FC2	Q1394	11	6	91	1438.8	68.0	24.71	55000	1635.81	33.62	
FC5	Q1395	11	6	91	1447.2	68.0	24.71	63000	1618.72	38.92	
QI1	Q1398	11	6	91	1452.6	68.0	24.71	60000	1616.54	37.12	
QI2	Q1400	11	6	91	1411.2	68.0	24.71	53000	1548.49	34.23	
AQ1	Q1402	17	6	91	1437.4	72.0	24.72	83000	1611.83	51.49	
AQ10	Q1419	17	6	91	1438.1	72.0	24.72	97000	1632.98	59.40	
AQ11	Q1421	17	6	91	1435.3	72.0	24.72	84000	1597.29	52.59	
AQ12	Q1422	17	6	91	1434.7	72.0	24.72	110000	1598.65	68.81	
AQ2	Q1404	17	6	91	1439.7	72.0	24.72	150000	1598.11	93.86	
AQ3	Q1407	17	6	91	1439.8	72.0	24.72	92000	1614.52	56.98	
AQ4	Q1409	17	6	91	1437.1	72.0	24.72	81000	1576.91	51.37	
AQ5	Q1410	17	6	91	1437.5	72.0	24.72	100000	1597.70	62.59	
AQ5-	Q1411	17	6	91	1445.2	72.0	24.72	81000	1614.44	50.17	
AQ6	Q1414	17	6	91	1458.1	72.0	24.72	100000	1647.43	60.70	
AQ8	Q1416	17	6	91	1446.8	72.0	24.72	95000	1614.18	58.85	
AQ9	Q1417	17	6	91	1451.0	72.0	24.72	81000	1637.36	49.47	
FC1	Q1428	17	6	91	1446.0	72.0	24.72	86000	1609.19	53.44	
FC2	Q1430	17	6	91	1434.0	72.0	24.72	94000	1630.35	57.66	
FC3	Q1431	17	6	91	1441.2	72.0	24.72	90000	1646.70	54.65	
FC5	Q1433	17	6	91	1440.6	72.0	24.72	140000	1611.34	86.88	
QI1	Q1424	17	6	91	1441.2	72.0	24.72	150000	1603.85	93.52	
QI2	Q1426	17	6	91	1405.2	72.0	24.72	110000	1541.90	71.34	
AQ1	Q1434	23	6	91	1469.4	70.0	24.76	61000	1647.72	37.02	
AQ10	Q1450	23	6	91	1442.2	70.0	24.76	56000	1692.77	33.08	
AQ11	Q1452	23	6	91	1447.6	70.0	24.76	89000	1610.97	55.25	
AQ12	Q1453	23	6	91	1438.7	70.0	24.76	67000	1603.11	41.79	
AQ2	Q1436	23	6	91	1440.0	70.0	24.76	57000	1598.44	35.66	
AQ3	Q1438	23	6	91	1442.1	70.0	24.76	59000	1617.10	36.48	
AQ4	Q1440	23	6	91	1442.3	70.0	24.76	54000	1582.61	34.12	
AQ5	Q1441	23	6	91	1444.0	70.0	24.76	60000	1604.92	37.38	

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AQ5-	Q1442	23	6	91	1445.0	70.0	24.76	53000	1614.22	32.83	
AQ6	Q1445	23	6	91	1464.0	70.0	24.76	70000	1654.10	42.32	
AQ7	Q1446	23	6	91	1448.6	70.0	24.76	56000	1638.75	34.17	
AQ8	Q1447	23	6	91	1449.2	70.0	24.76	58000	1616.86	35.87	
AQ9	Q1448	23	6	91	1451.7	70.0	24.76	58000	1638.15	35.41	
FC1	Q1455	23	6	91	1447.8	70.0	24.76	57000	1611.20	35.38	
FC2	Q1457	23	6	91	1438.8	70.0	24.76	73000	1635.81	44.63	
FC5	Q1458	23	6	91	1445.4	70.0	24.76	59000	1616.71	36.49	
QI1	Q1459	23	6	91	1443.6	70.0	24.76	57000	1606.52	35.48	
QI2	Q1461	23	6	91	1411.2	70.0	24.76	53000	1548.49	34.23	
AQ1	Q1463	29	6	91	1438.6	75.0	24.68	100000	1613.18	61.99	
AQ10	Q1479	29	6	91	1441.6	75.0	24.68	100000	1692.06	59.10	
AQ11	Q1481	29	6	91	1437.9	75.0	24.68	130000	1600.18	81.24	
AQ12	Q1482	29	6	91	1436.1	75.0	24.68	140000	1600.21	87.49	
AQ2	Q1465	29	6	91	1441.0	75.0	24.68	13000	1599.55	8.13	
AQ3	Q1467	29	6	91	1437.9	75.0	24.68	130000	1612.39	80.63	
AQ4	Q1469	29	6	91	1444.5	75.0	24.68	110000	1585.03	69.40	
AQ5	Q1470	29	6	91	1435.6	75.0	24.68	120000	1595.59	75.21	
AQ5-	Q1471	29	6	91	1442.0	75.0	24.68	99000	1610.87	61.46	
AQ6	Q1474	29	6	91	1461.1	75.0	24.68	120000	1650.82	72.69	
AQ7	Q1475	29	6	91	1444.1	75.0	24.68	95000	1633.66	58.15	
AQ8	Q1476	29	6	91	1449.3	75.0	24.68	98000	1616.97	60.61	
AQ9	Q1477	29	6	91	1448.8	75.0	24.68	110000	1634.87	67.28	
FC1	Q1484	29	6	91	1441.2	75.0	24.68	140000	1603.85	87.29	
FC2	Q1486	29	6	91	1434.0	75.0	24.68	160000	1630.35	98.14	
FC5	Q1487	29	6	91	1440.6	75.0	24.68	140000	1611.34	86.88	
QI1	Q1488	29	6	91	1438.8	75.0	24.68	130000	1601.18	81.19	
QI2	Q1490	29	6	91	1399.8	75.0	24.68	120000	1535.98	78.13	
AQ1	Q1492	2	7	91	1368.2	69.0	24.91	93000	1534.24	60.62	
AQ3	Q1493	2	7	91	1359.9	69.0	24.91	100000	1524.93	65.58	
AQ4	Q1494	2	7	91	1339.5	69.0	24.91	86000	1469.81	58.51	
AQ5	Q1495	2	7	91	1386.8	69.0	24.91	10000	1541.35	6.49	
AQ5-	Q1496	2	7	91	1385.6	69.0	24.91	88000	1547.86	56.85	
FC2	Q1500	2	7	91	1382.4	69.0	24.91	100000	1571.69	63.63	
M2	Q1499	2	7	91	1295.2	69.0	24.91	88000	709.68	124.00	
QI1	Q1497	2	7	91	1363.2	69.0	24.91	95000	1517.05	62.62	
QI2	Q1498	2	7	91	1410.6	69.0	24.91	120000	1547.83	77.53	
AQ1	Q0000607	5	7	91	1441.1	81.0	24.73	80000	1615.98	49.51	
AQ10	Q0000623	5	7	91	1445.7	81.0	24.73	77000	1696.88	45.38	
AQ11	Q0000625	5	7	91	1445.3	81.0	24.73	82000	1608.41	50.98	
AQ12	Q0000626	5	7	91	1439.1	81.0	24.73	90000	1603.55	56.13	
AQ2	Q0000609	5	7	91	1448.9	81.0	24.73	130000	1608.32	80.83	
AQ3	Q0000611	5	7	91	1446.0	81.0	24.73	110000	1621.48	67.84	
AQ4	Q0000613	5	7	91	1442.5	81.0	24.73	100000	1582.83	63.18	
AQ5	Q0000614	5	7	91	1447.8	81.0	24.73	87000	1609.15	54.07	
AQ5-	Q0000615	5	7	91	1446.9	81.0	24.73	77000	1616.34	47.64	
AQ6	Q0000618	5	7	91	1467.3	81.0	24.73	95000	1657.83	57.30	
AQ7	Q0000619	5	7	91	1447.7	81.0	24.73	76000	1637.73	46.41	
AQ8	Q0000620	5	7	91	1449.5	81.0	24.73	76000	1617.19	47.00	
AQ9	Q0000621	5	7	91	1452.4	81.0	24.73	74000	1638.94	45.15	
QI1	Q0000628	5	7	91	1449.0	81.0	24.73	85000	1612.53	52.71	



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QI2	Q0000630	5	7	91	1405.2	81.0	24.73	84000	1541.90	54.48	
AQ1	Q0000632	11	7	91	1439.7	71.0	24.87	58000	1614.41	35.93	
AQ10	Q0000648	11	7	91	1442.8	71.0	24.87	49000	1693.47	28.93	
AQ11	Q0000650	11	7	91	1445.5	71.0	24.87	51000	1608.64	31.70	
AQ12	Q0000651	11	7	91	1443.0	71.0	24.87	51000	1607.90	31.72	
AQ2	Q0000634	11	7	91	1444.1	71.0	24.87	160000	1602.99	99.81	
AQ3	Q0000636	11	7	91	1444.0	71.0	24.87	68000	1619.23	42.00	
AQ4	Q0000638	11	7	91	1444.5	71.0	24.87	50000	1585.03	31.55	
AQ5	Q0000639	11	7	91	1445.0	71.0	24.87	60000	1606.03	37.36	
AQ5-	Q0000640	11	7	91	1446.4	71.0	24.87	52000	1615.78	32.18	
AQ6	Q0000643	11	7	91	1463.1	71.0	24.87	60000	1653.08	36.30	
AQ7	Q0000644	11	7	91	1448.7	71.0	24.87	49000	1638.86	29.90	
AQ8	Q0000645	11	7	91	1448.6	71.0	24.87	45000	1616.19	27.84	
AQ9	Q0000646	11	7	91	1448.4	71.0	24.87	44000	1634.42	26.92	
FC1	Q0000652	11	7	91	1452.6	71.0	24.87	56000	1616.54	34.64	
FC2	Q0000654	11	7	91	1444.2	71.0	24.87	55000	1641.95	33.50	
FC3	Q0000655	11	7	91	1446.0	71.0	24.87	48000	1652.19	29.05	
FC4	Q0000666	11	7	91	1437.0	71.0	24.87	64000	1645.97	38.88	
M1	Q0000664	11	7	91	506.3	75.0	24.89	34000	254.48	133.61	
M2	Q0000663	11	7	91	474.8	75.0	24.89	22000	260.16	84.56	
M3	Q0000665	11	7	91	506.6	75.0	24.89	27000	281.89	95.78	
QI1	Q0000658	11	7	91	1444.2	71.0	24.87	58000	1607.19	36.09	
QI2	Q0000660	11	7	91	1411.8	71.0	24.87	82000	1549.15	52.93	
AQ1	Q0000667	17	7	91	1441.4	78.0	24.82	84000	1616.32	51.97	
AQ10	Q0000683	17	7	91	1443.0	78.0	24.82	90000	1693.71	53.14	
AQ11	Q0000685	17	7	91	1442.5	78.0	24.82	88000	1605.30	54.82	
AQ12	Q0000686	17	7	91	1441.0	78.0	24.82	86000	1605.67	53.56	
AQ2	Q0000669	17	7	91	1447.5	78.0	24.82	120000	1606.76	74.68	
AQ3	Q0000671	17	7	91	1443.8	78.0	24.82	96000	1619.01	59.30	
AQ4	Q0000673	17	7	91	1441.8	78.0	24.82	87000	1582.06	54.99	
AQ5	Q0000674	17	7	91	1441.8	78.0	24.82	88000	1602.48	54.91	
AQ5-	Q0000675	17	7	91	1447.7	78.0	24.82	76000	1617.23	46.99	
AQ6	Q0000678	17	7	91	1466.0	78.0	24.82	100000	1656.36	60.37	
AQ7	Q0000679	17	7	91	1447.9	78.0	24.82	82000	1637.96	50.06	
AQ8	Q0000680	17	7	91	1452.2	78.0	24.82	81000	1620.20	49.99	
AQ9	Q0000681	17	7	91	1449.0	78.0	24.82	72000	1635.10	44.03	
M1	Q0000687	17	7	91	1354.0	78.0	24.79	110000	680.56	161.63	
M2	Q0000689	17	7	91	1336.1	78.0	24.79	110000	732.09	150.25	
M3	Q0000688	17	7	91	1354.2	78.0	24.79	110000	753.52	145.98	
QI1	Q0000691	17	7	91	1445.4	78.0	24.82	94000	1608.53	58.44	
QI2	Q0000693	17	7	91	1405.2	78.0	24.82	120000	1541.90	77.83	
AQ1	Q0000696	23	7	91	1440.1	58.0	25.05	11000	1614.86	6.81	
AQ10	Q2015	23	7	91	1441.2	58.0	25.05	8800	1691.59	5.20	
AQ11	Q2017	23	7	91	1445.0	58.0	25.05	12000	1608.08	7.46	
AQ12	Q2018	23	7	91	1443.5	58.0	25.05	13000	1608.45	8.08	
AQ2	Q0000698	23	7	91	1443.8	58.0	25.05	26000	1602.66	16.22	
AQ3	Q2003	23	7	91	1449.5	58.0	25.05	13000	1625.40	8.00	
AQ4	Q2005	23	7	91	1446.3	58.0	25.05	9300	1587.00	5.86	
AQ5	Q2006	23	7	91	1445.0	58.0	25.05	9500	1606.03	5.92	
AQ5-	Q2007	23	7	91	1448.4	58.0	25.05	8200	1618.02	5.07	
AQ6	Q2010	23	7	91	1466.8	58.0	25.05	13000	1657.26	7.84	

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AQ7	Q2011	23	7	91	1448.4	58.0	25.05	8700	1638.52	5.31	
AQ8	Q2012	23	7	91	1452.2	58.0	25.05	8200	1620.20	5.06	
AQ9	Q2013	23	7	91	1448.8	58.0	25.05	12000	1634.87	7.34	
FC1	Q2023	23	7	91	1451.4	58.0	25.05	11000	1615.20	6.81	
FC2	Q2025	23	7	91	1442.4	58.0	25.05	12000	1639.90	7.32	
FC5	Q0000690	23	7	91	1446.0	58.0	25.05	11000	1617.38	6.80	
QI1	Q2019	23	7	91	1444.8	58.0	25.05	12000	1607.86	7.46	
QI2	Q2021	23	7	91	1414.2	58.0	25.05	17000	1551.78	10.96	
AQ1	Q-1506	29	7	91	1444.4	77.4	24.71	77000	1643.42	46.85	
AQ10	Q-1523	29	7	91	1445.2	77.4	24.71	68000	1555.67	43.71	
AQ11	Q-1525	29	7	91	1445.9	77.4	24.71	57000	1338.24	42.59	
AQ12	Q-1526	29	7	91	1446.4	77.4	24.71	79000	1897.98	41.62	
AQ2	Q-1509	29	7	91	1447.6	77.4	24.71	130000	1578.91	82.34	
AQ3	Q-1511	29	7	91	1447.1	77.4	24.71	70000	1694.36	41.31	
AQ4	Q-1532	29	7	91	1444.5	77.4	24.71	64000	1399.70	45.72	
AQ5	Q-1514	29	7	91	1447.5	77.4	24.71	75000	2209.86	33.94	
AQ5-	Q-1515	29	7	91	1455.4	77.4	24.71	53000	1330.39	39.84	
AQ6	Q-1518	29	7	91	1469.6	77.4	24.71	70000	1947.66	35.94	
AQ7	Q-1519	29	7	91	1449.9	77.4	24.71	55000	1593.12	34.52	
AQ8	Q-1520	29	7	91	1454.8	77.4	24.71	59000	1740.43	33.90	
AQ9	Q-1521	29	7	91	1451.6	77.4	24.71	54000	1603.93	33.67	
QI1	Q-1527	29	7	91	1443.6	77.4	24.71	69000	1581.96	43.62	
QI2	Q-1529	29	7	91	1411.2	77.4	24.71	92000	1432.84	64.21	
AQ1	Q-1533	4	8	91	1438.4	63.4	24.87	26000	1698.79	15.31	
AQ10	Q-1549	4	8	91	1439.3	63.4	24.87	20000	1499.90	13.33	
AQ11	Q-1551	4	8	91	1442.8	63.4	24.87	24000	1348.52	17.80	
AQ12	Q-1552	4	8	91	1441.4	63.4	24.87	28000	1781.30	15.72	
AQ2	Q-1535	4	8	91	1437.7	63.4	24.87	29000	1507.14	19.24	
AQ3	Q-1537	4	8	91	1442.8	63.4	24.87	28000	1773.73	15.79	
AQ4	Q-1539	4	8	91	1441.7	63.4	24.87	17000	1344.95	12.64	
AQ5	Q-1540	4	8	91	1439.7	63.4	24.87	25000	2118.06	11.80	
AQ5-	Q-1541	4	8	91	1441.1	63.4	24.87	21000	1191.89	17.62	
AQ6	Q-1544	4	8	91	1460.8	63.4	24.87	24000	1815.04	13.22	
AQ7	Q-1545	4	8	91	1445.9	63.4	24.87	22000	1573.17	13.98	
AQ8	Q-1546	4	8	91	1451.8	63.4	24.87	18000	1719.39	10.47	
AQ9	Q-1547	4	8	91	1448.2	63.4	24.87	19000	1537.21	12.36	
FC1	Q-1558	4	8	91	1446.6	63.4	24.87	24000	1410.55	17.01	
FC2	Q-1560	4	8	91	1438.8	63.4	24.87	26000	1416.88	18.35	
FC5	Q-1561	4	8	91	1447.8	63.4	24.87	23000	1432.45	16.06	
QI1	Q-1553	4	8	91	1442.4	63.4	24.87	25000	1533.04	16.31	
QI2	Q-1556	4	8	91	1409.4	63.4	24.87	22000	1306.51	16.84	
AQ1	Q-1563	10	8	91	1434.5	68.0	24.83	74000	1717.35	43.09	
AQ10	Q-1579	10	8	91	1439.5	68.0	24.83	56000	1663.34	33.67	
AQ11	Q-1581	10	8	91	1442.5	68.0	24.83	63000	1447.23	43.53	
AQ12	Q-1582	10	8	91	1440.5	68.0	24.83	69000	1672.56	41.25	
AQ2	Q-1565	10	8	91	1437.2	68.0	24.83	96000	1607.27	59.73	
AQ3	Q-1567	10	8	91	1441.1	68.0	24.83	90000	1859.37	48.40	
AQ4	Q-1569	10	8	91	1440.2	68.0	24.83	52000	1331.45	39.06	
AQ5	Q-1570	10	8	91	1439.1	68.0	24.83	58000	1542.38	37.60	
AQ5-	Q-1571	10	8	91	1441.1	68.0	24.83	53000	1453.42	36.47	
AQ6	Q-1574	10	8	91	1463.5	68.0	24.83	57000	1602.03	35.58	

## SRANNTSP.XLS

AQ7	Q-1575	10	8	91	1444.6	68.0	24.83	58000	1609.54	36.04
AQ8	Q-1576	10	8	91	1449.0	68.0	24.83	53000	1683.11	31.49
AQ9	Q-1577	10	8	91	1446.2	68.0	24.83	55000	1527.93	36.00
QI1	Q-1583	10	8	91	1442.4	68.0	24.83	63000	1533.04	41.09
QI2	Q-1585	10	8	91	1415.4	68.0	24.83	68000	1483.60	45.83
AQ1	Q-1588	16	8	91	1441.5	68.6	24.86	72000	1712.02	42.06
AQ10	Q-1606	16	8	91	1454.3	68.6	24.86	91000	1665.52	54.64
AQ11	Q-2052	16	8	91	1446.7	68.6	24.86	150000	1519.29	98.73
AQ12	Q-2053	16	8	91	1445.3	68.6	24.86	86000	1712.51	50.22
AQ2	Q-1590	16	8	91	1452.7	68.6	24.86	110000	1604.26	68.57
AQ3	Q-1592	16	8	91	1449.1	68.6	24.86	84000	1785.07	47.06
AQ4	Q-1594	16	8	91	1444.9	68.6	24.86	93000	1311.39	70.92
AQ5	Q-1595	16	8	91	1447.7	68.6	24.86	77000	1529.93	50.33
AQ5-	Q-1596	16	8	91	1457.2	68.6	24.86	71000	1497.08	47.43
AQ6	Q-1599	16	8	91	1468.4	68.6	24.86	77000	1616.01	47.65
AQ7	Q-1601	16	8	91	1450.6	68.6	24.86	67000	1593.89	42.04
AQ8	Q-1602	16	8	91	1455.4	68.6	24.86	140000	1699.32	82.39
AQ9	Q-1603	16	8	91	1454.6	68.6	24.86	61000	1553.10	39.28
FC1	Q-2058	16	8	91	1450.8	68.6	24.86	86000	1467.76	58.59
FC2	Q-2060	16	8	91	1450.8	68.6	24.86	83000	1382.74	60.03
FC3	Q-2061	16	8	91	1449.6	68.6	24.86	68000	1454.15	46.76
FC5	Q-2063	16	8	91	1450.8	68.6	24.86	80000	1441.63	55.49
QI1	Q-2054	16	8	91	1455.0	68.6	24.86	100000	1546.43	64.67
QI2	Q-2056	16	8	91	1448.4	68.6	24.86	170000	1578.54	107.69
AQ1	Q-2065	22	8	91	1439.6	74.2	24.91	86000	1738.12	49.48
AQ10	Q-2081	22	8	91	1448.0	74.2	24.91	85000	1699.35	50.02
AQ11	Q-2083	22	8	91	1448.1	74.2	24.91	94000	1519.56	61.86
AQ12	Q-2084	22	8	91	1445.9	74.2	24.91	80000	1703.12	46.97
AQ2	Q-2067	22	8	91	1446.7	74.2	24.91	130000	1595.84	81.46
AQ3	Q-2069	22	8	91	1445.8	74.2	24.91	85000	1691.50	50.25
AQ4	Q-2071	22	8	91	1445.8	74.2	24.91	70000	1374.46	50.93
AQ5	Q-2072	22	8	91	1445.6	74.2	24.91	77000	1646.20	46.77
AQ5-	Q-2073	22	8	91	1449.4	74.2	24.91	67000	1543.14	43.42
AQ6	Q-2076	22	8	91	1469.6	74.2	24.91	82000	1653.37	49.60
AQ7	Q-2077	22	8	91	1451.0	74.2	24.91	74000	1603.97	46.14
AQ8	Q-2078	22	8	91	1454.1	74.2	24.91	96000	1697.81	56.54
AQ9	Q-2079	22	8	91	1451.5	74.2	24.91	67000	1626.06	41.20
QI1	Q-2085	22	8	91	1446.0	74.2	24.91	110000	1561.50	70.45
QI2	Q-2087	22	8	91	1443.0	74.2	24.91	150000	1593.42	94.14
AQ1	Q-2090	28	8	91	1429.6	66.2	24.86	52000	1771.66	29.35
AQ10	Q-2106	28	8	91	1433.6	66.2	24.86	49000	1696.84	28.88
AQ12	Q-2109	28	8	91	1440.2	66.2	24.86	58000	1734.03	33.45
AQ2	Q-2092	28	8	91	1432.8	66.2	24.86	60000	1582.28	37.92
AQ3	Q-2094	28	8	91	1440.7	66.2	24.86	50000	1662.03	30.08
AQ5	Q-2097	28	8	91	1432.8	66.2	24.86	46000	1726.57	26.64
AQ5-	Q-2098	28	8	91	1437.7	66.2	24.86	42000	1530.69	27.44
AQ6	Q-2101	28	8	91	1458.1	66.2	24.86	45000	1775.91	25.34
AQ7	Q-2102	28	8	91	1443.5	66.2	24.86	45000	1630.54	27.60
AQ8	Q-2103	28	8	91	1449.6	66.2	24.86	46000	1692.55	27.18
AQ9	Q-2104	28	8	91	1089.6	66.2	24.86	24000	1203.94	19.93
FC1	Q-2114	28	8	91	1133.4	66.2	24.86	38000	1170.93	32.45

## SRANNTSP.XLS

FC5	Q-2117	28	8	91	1130.4	66.2	24.86	44000	1139.16	38.62	
QI1	Q-2110	28	8	91	1129.8	66.2	24.86	38000	1238.08	30.69	
AQ1	Q-2119	3	9	91	1433.3	67.6	25.01	150000	1730.52	86.68	
AQ10	Q-0209	3	9	91	1441.5	67.6	25.01	150000	1697.89	88.35	
AQ12	Q-0212	3	9	91	1440.5	67.6	25.01	150000	1624.42	92.34	
AQ2	Q-2121	3	9	91	1438.2	67.6	25.01	240000	1614.72	148.63	
AQ3	Q-2123	3	9	91	1442.9	67.6	25.01	170000	1779.01	95.56	
AQ5	Q-0200	3	9	91	1437.6	67.6	25.01	140000	1664.08	84.13	
AQ5-	Q-0201	3	9	91	1441.3	67.6	25.01	130000	1522.76	85.37	
AQ6	Q-0204	3	9	91	1462.0	67.6	25.01	140000	1640.43	85.34	
AQ7	Q-0205	3	9	91	1445.6	67.6	25.01	140000	1565.27	89.44	
AQ8	Q-0206	3	9	91	1448.9	67.6	25.01	180000	1754.19	102.61	
AQ9	Q-0207	3	9	91	1446.3	67.6	25.01	50000	1598.07	31.29	
QI1	Q-0215	3	9	91	1441.2	67.6	25.01	140000	1548.67	90.40	
AQ1	Q-0219	9	9	91	1445.1	64.9	24.88	42000	1757.70	23.89	
AQ10	Q-0235	9	9	91	1444.3	64.9	24.88	48000	1682.98	28.52	
AQ11	Q-0211	9	9	91	1446.7	64.9	24.88	450000	1571.24	286.40	
AQ12	Q-0237	9	9	91	1440.5	64.9	24.88	58000	1644.46	35.27	
AQ2	Q-0221	9	9	91	1444.7	64.9	24.88	50000	1644.95	30.40	
AQ3	Q-0223	9	9	91	1445.0	64.9	24.88	55000	1782.15	30.86	
AQ4	Q-0225	9	9	91	1445.3	64.9	24.88	49000	1281.77	38.23	
AQ5	Q-0226	9	9	91	1453.6	64.9	24.88	39000	1627.64	23.96	
AQ5-	Q-0227	9	9	91	1454.1	64.9	24.88	38000	1512.60	25.12	
AQ6	Q-0230	9	9	91	1471.7	64.9	24.88	40000	1654.32	24.18	
AQ7	Q-0231	9	9	91	1451.1	64.9	24.88	44000	1612.46	27.29	
AQ8	Q-0232	9	9	91	1453.0	64.9	24.88	55000	1779.40	30.91	
AQ9	Q-0233	9	9	91	1449.6	64.9	24.88	41000	1457.24	28.14	
FC1	Q-0240	9	9	91	1452.6	64.9	24.88	17000	1500.69	11.33	
FC5	Q-0243	9	9	91	1450.8	64.9	24.88	95000	1462.05	64.98	
QI1	Q-0238	9	9	91	1447.8	64.9	24.88	120000	1574.03	76.24	
QI2	Q-0213	9	9	91	1446.6	64.9	24.88	55000	1372.32	40.08	
AQ1	Q-0244	15	9	91	1438.5	54.9	24.88	67000	1865.53	35.91	
AQ10	Q-0260	15	9	91	1443.5	54.9	24.86	66000	1694.07	38.96	
AQ11	Q-0263	15	9	91	1440.5	54.9	24.86	50000	1627.09	30.73	
AQ12	Q-0264	15	9	91	1440.9	54.9	24.86	63000	1666.08	37.81	
AQ2	Q-0246	15	9	91	1444.5	54.9	24.86	70000	1476.12	47.42	
AQ3	Q-0248	15	9	91	1442.9	54.9	24.86	57000	1801.90	31.63	
AQ4	Q-0250	15	9	91	1438.2	54.9	24.86	62000	1281.09	48.40	
AQ5	Q-0251	15	9	91	1443.4	54.9	24.86	54000	1601.20	33.72	
AQ5-	Q-0252	15	9	91	1448.0	54.9	24.86	58000	1541.65	37.62	
AQ6	Q-0255	15	9	91	1470.6	54.9	24.86	60000	1705.18	35.19	
AQ7	Q-0256	15	9	91	1448.2	54.9	24.86	43000	1373.23	31.31	
AQ8	Q-0257	15	9	91	1451.0	54.9	24.86	110000	1947.77	56.47	
AQ9	Q-0258	15	9	91	1446.8	54.9	24.86	53000	1617.24	32.77	
QI1	Q-0265	15	9	91	1440.0	54.9	24.86	47000	1492.36	31.49	
QI2	Q-0267	15	9	91	1437.6	54.9	24.86	52000	1459.65	35.63	
AQ1	Q-0269	21	9	91	1437.9	54.9	24.86	110000	1863.70	59.02	
AQ10	Q-0285	21	9	91	1445.5	54.9	24.86	82000	1696.42	48.34	
AQ11	Q-0287	21	9	91	1444.1	54.9	24.86	94000	1639.11	57.35	
AQ12	Q-0288	21	9	91	1441.6	54.9	24.86	92000	1600.93	57.47	
AQ2	Q-0271	21	9	91	1442.1	54.9	24.86	170000	1481.03	114.78	

## SRANNTSP.XLS

AQ3	Q-0273	21	9	91	1443.2	54.9	24.86	110000	1466.16	75.03	
AQ4	Q-0275	21	9	91	1443.3	54.9	24.86	110000	1664.35	66.09	
AQ5	Q-0276	21	9	91	1444.1	54.9	24.86	90000	1572.20	57.24	
AQ5-	Q-0277	21	9	91	1451.6	54.9	24.86	85000	1569.05	54.17	
AQ6	Q-0280	21	9	91	1469.5	54.9	24.86	89000	1676.89	53.07	
AQ7	Q-0281	21	9	91	1448.2	54.9	24.86	84000	1537.82	54.62	
AQ8	Q-0282	21	9	91	1450.5	54.9	24.86	120000	1628.16	73.70	
AQ9	Q-0283	21	9	91	1448.7	54.9	24.86	81000	1567.59	51.67	
FC1	Q-0289	21	9	91	1447.2	54.9	24.86	100000	1597.27	62.61	
FC2	Q-0291	21	9	91	1441.8	54.9	24.86	88000	1587.98	55.42	
FC3	Q-0292	21	9	91	1443.0	54.9	24.86	92000	1524.49	60.35	
FC4	Q-0293	21	9	91	1447.8	54.9	24.86	82000	1677.52	48.88	
FC5	Q-0294	21	9	91	1447.8	54.9	24.86	110000	1610.82	68.29	
QI1	Q-0295	21	9	91	1444.2	54.9	24.86	68000	1336.20	50.89	
AQ1	Q-0300	27	9	91	1434.4	63.2	24.83	190000	1684.88	112.77	
AQ10	Q-0316	27	9	91	1437.8	63.2	24.83	170000	1661.35	102.33	
AQ11	Q-0318	27	9	91	1444.1	63.2	24.83	190000	1628.45	116.68	
AQ12	Q-0319	27	9	91	1439.4	63.2	24.83	150000	1579.96	94.94	
AQ2	Q-0302	27	9	91	1439.9	63.2	24.83	300000	1484.59	202.08	
AQ3	Q-0304	27	9	91	1439.8	63.2	24.83	170000	1426.07	119.21	
AQ4	Q-0306	27	9	91	1440.5	63.2	24.83	200000	1723.34	116.05	
AQ5	Q-0307	27	9	91	1436.4	63.2	24.83	140000	1607.26	87.10	
AQ5-	Q-0308	27	9	91	1445.5	63.2	24.83	130000	1550.50	83.84	
AQ6	Q-0311	27	9	91	1460.1	63.2	24.83	150000	1612.16	93.04	
AQ7	Q-0312	27	9	91	1444.9	63.2	24.83	150000	1182.51	126.85	
AQ8	Q-0313	27	9	91	1448.7	63.2	24.83	160000	1650.53	96.94	
AQ9	Q-0314	27	9	91	1447.0	63.2	24.83	150000	1575.99	95.18	
QI2	Q-0322	27	9	91	1436.4	63.2	24.83	160000	1374.64	116.39	

APPENDIX B

RESPIRABLE PARTICULATES OF LESS THAN  
10 MICRONS (PM-10) DATA

B1 Summary

B2 Listing

B1 SUMMARY

TABLE - PARTICULATE MATTER < 10 MICRONS, CONCENTRATIONS

FACILITY NAME: ROCKY MOUNTAIN ARSENAL  
STATE: COLORADO

SITE: A01  
COUNTY: ADAMS

PARAMETER: PM10  
SAMPLING INTERVAL: ONCE EVERY 6  
DAYS FOR 24 HOURS

UNITS: MICROGRAMS/(CU.M)  
YEAR: FY91

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL
01						24							
02	---												
03													
04													
05					50		21	15	**	25	9		39
06				---		12							
07		---	---										
08	---												
09													
10													
11					38		7	43	**	20	23		12
12				---		15							
13		---	---										
14	---												
15													
16													
17					17				**	27	20		22
18				---			36	32					
19		---	---			33							
20	---												
21													
22													
23					30				19	5	27		38
24				43			17	**					
25		---	---			22							
26	---												
27													
28													
29													
30				34			13	**	30	25	18		70
31			---			15							
NO.	0	0	0	2	4	6	5	3	2	5	5	5	37
MEAN	***	***	***	38	34	20	19	30	24	20	20	36	26
MAX	***	***	***	43	50	33	36	43	30	27	27	70	70
GEO	***	***	***	38	31	19	16	28	24	18	19	31	22
MEAN													

--- indicates missing data

\*\* indicates invalid data

\*\*\* indicates insufficient data for computation

ANNUAL PERCENT RECOVERY = 60.7



TABLE - PARTICULATE MATTER < 10 MICRONS, CONCENTRATIONS

FACILITY NAME: ROCKY MTN ARSENAL  
STATE: COLORADO

SITE: A02  
COUNTY: ADAMS

PARAMETER: PM10  
SAMPLING INTERVAL: ONCE EVERY 6  
DAYS FOR 24 HOURS

UNITS: MICROGRAMS/(CU.M)  
YEAR: FY91

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL
01		---	---			28							
02	---												
03												45	
04					32				21	37	9		
05							20	16					
06				---		12							
07		---	---										
08	---											12	
09											22		
10					21		7	27	---	33			
11				---		12							
12		---	---										
13	---											17	
14											26		
15					17				36	37			
16				---			40	23					
17						26							
18		---	---										
19	---											38	
20											37		
21					26				20	2			
22				36		17	16	18					
23		---	---										
24	---											77	
25											18		
26									40	29			
27				32		9	13	40					
28			---										
29													
30													
31													
NO.	0	0	0	2	4	6	5	5	4	5	5	5	41
MEAN	***	***	***	34	24	17	19	25	29	27	23	38	25
MAX	***	***	***	36	32	28	40	40	40	37	37	77	77
GEO	***	***	***	34	23	16	16	23	28	19	21	31	22
MEAN													

--- indicates missing data

\*\* indicates invalid data

\*\*\* indicates insufficient data for computation

ANNUAL PERCENT RECOVERY = 67.2

TABLE - PARTICULATE MATTER < 10 MICRONS, CONCENTRATIONS

FACILITY NAME: ROCKY MTN ARSENAL  
STATE: COLORADO

SITE: A03  
COUNTY: ADAMS

PARAMETER: PM10  
SAMPLING INTERVAL: ONCE EVERY 6  
DAYS FOR 24 HOURS

UNITS: MICROGRAMS/(CU.M)  
YEAR: FY91

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL
01						17							
02	---												
03													
04					22				15	28	7	35	
05							17	10					
06				---			8						
07		---	---										
08	---												
09												12	
10											20		
11					19		5	20	20	17			
12				---									
13		---	---			10							
14	---												
15													
16											16		13
17					**				22	23			
18				---			30	17					
19						8							
20	---	---	---										
21												27	
22											21		
23					19				17	4			
24				20			11	12					
25		---	---			13							
26	---												
27												48	
28											14		
29									31	19			
30				---			10	27					
31			---			8							
NO.	0	0	0	1	3	6	5	5	5	5	5	5	40
MEAN	***	***	***	20	20	11	15	17	21	18	15	27	18
MAX	***	***	***	20	22	17	30	27	31	28	21	48	48
GEO	***	***	***	20	20	10	13	16	20	16	14	24	16
MEAN													

--- indicates missing data

\*\* indicates invalid data

\*\*\* indicates insufficient data for computation

ANNUAL PERCENT RECOVERY = 65.6

TABLE - PARTICULATE MATTER < 10 MICRONS, CONCENTRATIONS

FACILITY NAME: ROCKY MTN ARSENAL  
STATE: COLORADO

SITE: A05  
COUNTY: ADAMS

PARAMETER: PM10  
SAMPLING INTERVAL: ONCE EVERY 6  
DAYS FOR 24 HOURS

UNITS: MICROGRAMS/(CU.M)  
YEAR: FY91

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL
01						20							
02	---												
03												32	
04					43				19	22	9		
05				---			---	15					
06						8							
07		---	---										
08	---												
09												11	
10									16	14	18		
11				---			5	21					
12						10							
13		---	---										
14	---												
15												15	
16											18		
17					16				21	26			
18				---			32	22					
19		---	---			27							
20	---												
21												23	
22											---		
23					23				17	4			
24				32		**	14	13					
25		---	---										
26	---												
27												40	
28											---		
29									30	18			
30				34			13	28					
31			---			10							
NO.	0	0	0	2	3	5	4	5	5	5	3	5	37
MEAN	***	***	***	33	27	15	16	20	21	17	15	24	20
MAX	***	***	***	34	43	27	32	28	30	26	18	40	43
GEO	***	***	***	33	25	13	13	19	20	14	14	22	18
MEAN													

--- indicates missing data

\*\* indicates invalid data

\*\*\* indicates insufficient data for computation

ANNUAL PERCENT RECOVERY = 60.7

TABLE - PARTICULATE MATTER < 10 MICRONS, CONCENTRATIONS

FACILITY NAME: ROCKY MTN ARSENAL  
STATE: COLORADO

SITE: AQ5-C  
COUNTY: ADAMS

PARAMETER: PM10  
SAMPLING INTERVAL: ONCE EVERY 6  
DAYS FOR 24 HOURS

UNITS: MICROGRAMS/(CU.M)  
YEAR: FY91

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL
01		---	---			21							
02	---												
03													
04											9		32
05					45				19	22			
06				---			24	15					
07		---	---			8							
08	---												
09													
10											18		14
11					30		5	20	16	17			
12				---									
13		---	---			11							
14	---												
15													15
16											19		
17					16				21	26			
18				---			31	20					
19		---	---			27							
20	---												
21													23
22											21		
23					23				17	3			
24				30			15	13					
25		---	---			14							
26	---												
27													39
28											14		
29									30	18			
30				35			13	27					
31			---			9							
NO.	0	0	0	2	4	6	5	5	5	5	5	5	42
MEAN	***	***	***	32	28	15	18	19	21	17	16	25	20
MAX	***	***	***	35	45	27	31	27	30	26	21	39	45
GEO	***	***	***	32	26	14	15	19	20	14	15	23	18
MEAN													

--- indicates missing data

\*\* indicates invalid data

\*\*\* indicates insufficient data for computation

ANNUAL PERCENT RECOVERY = 68.9

TABLE - PARTICULATE MATTER < 10 MICRONS, CONCENTRATIONS

FACILITY NAME: ROCKY MTN ARSENAL  
STATE: COLORADO

SITE: A09  
COUNTY: ADAMS

PARAMETER: PM10  
SAMPLING INTERVAL: ONCE EVERY 6  
DAYS FOR 24 HOURS

UNITS: MICROGRAMS/(CU.M)  
YEAR: FY91

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL
01		---	---			16							
02	---												
03												92	
04					28				19	27	---		
05				---			23	12					
06		---	---			7							
07													
08	---											12	
09											18		
10					19		6	21	18	16			
11			---			11							
12		---	---										
13	---											14	
14											16		
15					12				24	25			
16				---			28	19					
17						40							
18	---	---	---									---	
19											21		
20					19				20	4			
21				20		13	12	13					
22		---	---										
23	---											40	
24											---		
25									35	19			
26				18		8	11	25					
27			---										
28													
29													
30													
31													
NO.	0	0	0	2	4	6	5	5	5	5	3	4	39
MEAN	***	***	***	19	20	16	16	18	23	18	18	39	20
MAX	***	***	***	20	28	40	28	25	35	27	21	92	92
GEO	***	***	***	19	19	13	14	17	22	15	18	28	17
MEAN													

--- indicates missing data

\*\* indicates invalid data

\*\*\* indicates insufficient data for computation

ANNUAL PERCENT RECOVERY = 63.9

TABLE - PARTICULATE MATTER < 10 MICRONS, CONCENTRATIONS

FACILITY NAME: ROCKY MTN ARSENAL  
STATE: COLORADO

SITE: A010  
COUNTY: ADAMS

PARAMETER: PM10  
SAMPLING INTERVAL: ONCE EVERY 6  
DAYS FOR 24 HOURS

UNITS: MICROGRAMS/(CU.M)  
YEAR: FY91

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL
01		---	---			22							
02	---												
03													
04													
05					29				20	27	9		36
06				---			---	14					
07		---	---			8							
08	---												
09													
10													
11					---				20	18	18		12
12				---			---	22					
13		---	---			10							
14	---												
15													
16											18		16
17					16				26	29			
18				---			---	23					
19						28							
20	---	---	---										
21													
22											21		24
23					22				19	4			
24				24			15	19					
25		---	---			16							
26	---												
27													
28											16		48
29									37	19			
30				---			13	36					
31			---			8							
NO.	0	0	0	1	3	6	2	5	5	5	5	5	37
MEAN	***	***	***	24	22	15	14	23	25	20	16	27	21
MAX	***	***	***	24	29	28	15	36	37	29	21	48	48
GEO	***	***	***	24	22	14	14	22	24	16	15	24	19
MEAN													

--- indicates missing data  
\*\* indicates invalid data  
\*\*\* indicates insufficient data for computation

ANNUAL PERCENT RECOVERY = 60.7

TABLE - PARTICULATE MATTER < 10 MICRONS, CONCENTRATIONS

FACILITY NAME: ROCKY MTN ARSENAL  
 STATE: COLORADO  
 PARAMETER: PM10  
 SAMPLING INTERVAL: ONCE EVERY 6  
 DAYS FOR 24 HOURS

SITE: FC1  
 COUNTY: ADAMS  
 UNITS: MICROGRAMS/(CU.M)  
 YEAR: FY91

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL
01		31	---			20							
02	---												
03													
04					28				24	---	8	---	
05							21	---					
06		---	32	---		---							
07													
08	---												
09												14	
10									27	19	---		
11				15	---		---	19					
12		84	---			12							
13	---												
14													
15											19	---	
16					12				26	---			
17							35	---					
18		---	24	---		---							
19	12												
20												27	
21													
22									18	4	---		
23				26	---		---	13					
24		17	---			14							
25	---												
26													
27											15	---	
28									47	---			
29							12	---					
30			19	---		---							
31													
NO.	1	3	3	2	2	3	3	2	5	2	3	2	31
MEAN	12	44	25	21	20	15	22	16	28	11	14	21	22
MAX	12	84	32	26	28	20	35	19	47	19	19	27	84
GEO	12	36	24	20	18	15	20	16	27	9	13	20	19
MEAN													

--- indicates missing data  
 \*\* indicates invalid data  
 \*\*\* indicates insufficient data for computation

ANNUAL PERCENT RECOVERY = 50.8

TABLE - PARTICULATE MATTER < 10 MICRONS, CONCENTRATIONS

FACILITY NAME: ROCKY MTN ARSENAL  
STATE: COLORADO

SITE: FC3  
COUNTY: ADAMS

PARAMETER: PM10  
SAMPLING INTERVAL: ONCE EVERY 6  
DAYS FOR 24 HOURS

UNITS: MICROGRAMS/(CU.M)  
YEAR: FY91

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL
01		36	---			18							
02	---												
03												---	
04											---		
05					29				---	---			
06				---			---	---					
07		---	23			---							
08	---												
09												---	
10											---		
11					---				---	---			
12				15			---	---					
13		34	---			11							
14	---												
15												---	
16											---		
17					12				---	---			
18				---			---	---					
19		---	15			---							
20	6												
21												---	
22											---		
23					---				---	---			
24				25			---	---					
25		15	---			14							
26	---												
27												---	
28											---		
29									---	---			
30				---			---	---					
31			17			---							
NO.	1	3	3	2	2	3	0	0	0	0	0	0	14
MEAN	6	28	19	20	21	14	***	***	***	***	***	***	19
MAX	6	36	23	25	29	18	***	***	***	***	***	***	36
GEO	6	26	18	19	19	14	***	***	***	***	***	***	17
MEAN													

--- indicates missing data

\*\* indicates invalid data

\*\*\* indicates insufficient data for computation

ANNUAL PERCENT RECOVERY = 23.0



TABLE - PARTICULATE MATTER < 10 MICRONS, CONCENTRATIONS

FACILITY NAME: ROCKY MTN ARSENAL  
STATE: COLORADO

SITE: 011  
COUNTY: ADAMS

PARAMETER: PM10  
SAMPLING INTERVAL: ONCE EVERY 6  
DAYS FOR 24 HOURS

UNITS: MICROGRAMS/(CU.M)  
YEAR: FY91

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL
01		---	---										
02	---											**	
03													
04					---		**	12	32	29	9		
05				---									
06		---	---			---							
07													
08	---											**	
09													
10											20		
11				---	---		---	20	21	19			
12													
13		---	---			---							
14	---											**	
15													
16					---				39	30	21		
17				---			32	25					
18		---	---			---							
19	---											**	
20											30		
21													
22					---		---	14	18	5			
23		---	---	---		---							
24													
25	---												
26												---	
27													
28									43	22			
29							12	34					
30				---		---							
31			---										
NO.	0	0	0	0	0	0	2	5	5	5	4	0	21
MEAN	***	***	***	***	***	***	22	21	31	21	20	***	23
MAX	***	***	***	***	***	***	32	34	43	30	30	***	43
GEO	***	***	***	***	***	***	19	19	29	18	18	***	21
MEAN													

--- indicates missing data

\*\* indicates invalid data

\*\*\* indicates insufficient data for computation

ANNUAL PERCENT RECOVERY = 34.4

TABLE - PARTICULATE MATTER < 10 MICRONS, CONCENTRATIONS

FACILITY NAME: ROCKY MTN ARSENAL  
STATE: COLORADO

SITE: 012  
COUNTY: ADAMS

PARAMETER: PM10  
SAMPLING INTERVAL: ONCE EVERY 6  
DAYS FOR 24 HOURS

UNITS: MICROGRAMS/(CU.M)  
YEAR: FY91

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL
01		---	---										
02	---												
03													
04											8	---	
05					---				24	31			
06				---			18	13					
07		---	---			---							
08	---												
09												14	
10											22		
11					---		6	21	22	25			
12				---									
13		---	---			---							
14	---												
15												14	
16											37		
17					---				29	35			
18				---			31	24					
19		---	---			---							
20	---												
21												37	
22											47		
23					---				19	6			
24				---			12	15					
25		---	---			---							
26	---												
27												---	
28											---		
29									43	25			
30				---			12	---					
31			---			---							
NO.	0	0	0	0	0	0	5	4	5	5	4	3	26
MEAN	***	***	***	***	***	***	16	19	27	24	28	22	23
MAX	***	***	***	***	***	***	31	24	43	35	47	37	47
GEO	***	***	***	***	***	***	13	18	26	21	24	19	20
MEAN													

--- indicates missing data  
\*\* indicates invalid data  
\*\*\* indicates insufficient data for computation

ANNUAL PERCENT RECOVERY = 42.6

B2 LISTING

## SRANNPM.XLS

PM-10 DATA FOR FISCAL YEAR 1991										
EBASCO DATA 24 JANUARY, 1991 thru 23 JULY, 1991										
WOODWARD-CLYDE CONSULTANTS DATA 29 JULY thru 27 SEPTEMBER, 1991										
PM10 DATA										
SMPL	SMPL				TOTAL	AVG. TEM	AVG. ATMS	SMPL WT	PM-10 TOTAL	
SITE	NMBR	DAY	MT	YR	ELAPS TIME	DEG. (F)	PRES (in. hg)	(ug) (PM10)	VOL. SCM	CONC. UG/M3
AQ1	Q753	24	1	91	1444.8	20.0	24.56	62000	1444.21	42.93
AQ10	Q769	24	1	91	1444.2	20.0	24.56	35000	1445.65	24.21
AQ2	Q755	24	1	91	1442.4	20.0	24.56	53000	1476.53	35.90
AQ3	Q757	24	1	91	1443.0	20.0	24.56	29000	1436.28	20.19
AQ5	Q761	24	1	91	1450.2	20.0	24.56	47000	1461.93	32.15
AQ5-C	Q762	24	1	91	1442.4	20.0	24.56	44000	1462.23	30.09
AQ9	Q767	24	1	91	1443.0	20.0	24.56	29000	1460.80	19.85
FC1	Q778	24	1	91	1443.0	20.0	24.56	38000	1448.54	26.23
FC3	Q777	24	1	91	1449.0	20.0	24.56	36000	1444.30	24.93
AQ1	Q780	30	1	91	1447.2	35.0	24.62	49000	1446.61	33.87
AQ2	Q782	30	1	91	1443.0	35.0	24.62	48000	1477.14	32.50
AQ5	Q788	30	1	91	1449.6	35.0	24.62	50000	1461.32	34.22
AQ5-C	Q789	30	1	91	1443.6	35.0	24.62	51000	1463.45	34.85
AQ9	Q794	30	1	91	1443.0	35.0	24.62	27000	1460.80	18.48
AQ1	Q807	5	2	91	1448.4	42.0	24.77	72000	1447.81	49.73
AQ10	Q823	5	2	91	1413.0	42.0	24.77	41000	1414.42	28.99
AQ2	Q809	5	2	91	1442.4	42.0	24.77	47000	1476.53	31.83
AQ3	Q811	5	2	91	1444.8	42.0	24.77	32000	1438.07	22.25
AQ5	Q815	5	2	91	1449.0	42.0	24.77	63000	1460.72	43.13
AQ5-C	Q816	5	2	91	1443.0	42.0	24.77	66000	1462.84	45.12
AQ9	Q821	5	2	91	1444.2	42.0	24.77	41000	1462.01	28.04
FC1	Q801	5	2	91	1444.2	42.0	24.77	40000	1449.74	27.59
FC3	Q803	5	2	91	1449.6	42.0	24.77	42000	1444.90	29.07
AQ1	Q828	11	2	91	1449.0	45.0	24.74	55000	1448.41	37.97
AQ2	Q830	11	2	91	1443.0	45.0	24.74	31000	1477.14	20.99
AQ3	Q832	11	2	91	1444.2	45.0	24.74	28000	1455.88	19.23
AQ5-C	Q837	11	2	91	1402.2	45.0	24.74	43000	1421.48	30.25
AQ9	Q841	11	2	91	1442.4	45.0	24.74	28000	1460.19	19.18
AQ1	Q849	17	2	91	1447.2	39.0	24.31	25000	1446.61	17.28
AQ10	Q865	17	2	91	1434.0	39.0	24.31	23000	1435.44	16.02
AQ2	Q851	17	2	91	1439.4	39.0	24.31	25000	1473.46	16.97
AQ3	Q853	17	2	91	1443.0	39.0	24.31	56000	1436.28	38.99
AQ5	Q857	17	2	91	1468.8	39.0	24.31	24000	1480.68	16.21
AQ5-C	Q858	17	2	91	1444.8	39.0	24.31	23000	1464.66	15.70
AQ9	Q863	17	2	91	1468.2	39.0	24.31	18000	1486.31	12.11
FC1	Q870	17	2	91	1440.0	39.0	24.31	17000	1445.53	11.76
FC3	Q872	17	2	91	1449.0	39.0	24.31	18000	1444.30	12.46
AQ1	Q876	23	2	91	1448.4	36.0	24.65	43000	1447.81	29.70
AQ10	Q892	23	2	91	1438.8	36.0	24.65	32000	1440.25	22.22
AQ2	Q878	23	2	91	1441.2	36.0	24.65	39000	1475.30	26.44

## SRANNPM.XLS

AQ3	Q880	23	2	91	1444.8	36.0	24.65	27000	1438.07	18.78	
AQ5	Q884	23	2	91	1450.8	36.0	24.65	33000	1462.53	22.56	
AQ5-C	Q885	23	2	91	1443.0	36.0	24.65	33000	1462.84	22.56	
AQ9	Q890	23	2	91	1446.6	36.0	24.65	28000	1464.44	19.12	
AQ1	Q897	1	3	91	1449.6	44.0	24.13	35000	1449.01	24.15	
AQ10	Q913	1	3	91	1432.2	44.0	24.13	32000	1433.64	22.32	
AQ2	Q899	1	3	91	1441.2	44.0	24.13	41000	1475.30	27.79	
AQ3	Q901	1	3	91	1445.4	44.0	24.13	25000	1438.67	17.38	
AQ5	Q905	1	3	91	1450.8	44.0	24.13	29000	1462.53	19.83	
AQ5-C	Q906	1	3	91	1441.8	44.0	24.13	30000	1461.62	20.53	
AQ9	Q911	1	3	91	1440.6	44.0	24.13	23000	1458.37	15.77	
FC1	Q918	1	3	91	1440.0	44.0	24.13	29000	1445.53	20.06	
FC3	Q920	1	3	91	1444.2	44.0	24.13	26000	1439.52	18.06	
AQ1	Q925	7	3	91	1449.0	31.0	24.50	18000	1448.41	12.43	
AQ10	Q941	7	3	91	1441.2	31.0	24.50	11000	1442.65	7.62	
AQ2	Q927	7	3	91	1442.4	31.0	24.50	17000	1476.53	11.51	
AQ3	Q929	7	3	91	1443.6	31.0	24.50	12000	1436.88	8.35	
AQ5	Q933	7	3	91	1459.2	31.0	24.50	12000	1471.00	8.16	
AQ5-C	Q934	7	3	91	1443.0	31.0	24.50	12000	1462.84	8.20	
AQ9	Q939	7	3	91	1448.4	31.0	24.50	9700	1466.26	6.62	
AQ1	Q946	13	3	91	1447.8	37.0	24.56	21000	1447.21	14.51	
AQ10	Q962	13	3	91	1437.6	37.0	24.56	15000	1439.05	10.42	
AQ2	Q948	13	3	91	1442.4	37.0	24.56	18000	1476.53	12.19	
AQ3	Q950	13	3	91	1446.6	37.0	24.56	15000	1439.86	10.42	
AQ5	Q954	13	3	91	1450.8	37.0	24.56	15000	1462.53	10.26	
AQ5-C	Q955	13	3	91	1443.0	37.0	24.56	16000	1462.84	10.94	
AQ9	Q960	13	3	91	1444.8	37.0	24.56	16000	1462.62	10.94	
FC1	Q967	13	3	91	1444.2	37.0	24.56	17000	1449.74	11.73	
FC3	Q970	13	3	91	1450.8	37.0	24.56	16000	1446.10	11.06	
AQ1	Q974	19	3	91	1449.0	46.0	24.33	48000	1448.41	33.14	
AQ10	Q990	19	3	91	1434.6	46.0	24.33	40000	1436.04	27.85	
AQ2	Q976	19	3	91	1442.4	46.0	24.33	38000	1476.53	25.74	
AQ3	Q977	19	3	91	1446.6	46.0	24.33	12000	1439.86	8.33	
AQ5	Q982	19	3	91	1458.0	46.0	24.33	39000	1469.79	26.53	
AQ5-C	Q983	19	3	91	1443.0	46.0	24.33	40000	1462.84	27.34	
AQ9	Q988	19	3	91	1482.6	46.0	24.33	60000	1500.88	39.98	
AQ1	Q995	25	3	91	1449.0	55.0	24.35	32000	1448.41	22.09	
AQ10	Q1014	25	3	91	1431.0	55.0	24.35	23000	1432.44	16.06	
AQ2	Q997	25	3	91	1442.4	55.0	24.35	25000	1476.53	16.93	
AQ3	Q1002	25	3	91	1447.2	55.0	24.35	19000	1440.46	13.19	
AQ5	Q1006	25	3	91	1461.0	55.0	24.35	120000	1472.81	81.48	
AQ5-C	Q1007	25	3	91	1443.6	55.0	24.35	21000	1463.45	14.35	
AQ9	Q1012	25	3	91	1462.8	55.0	24.35	19000	1480.84	12.83	
FC1	Q1019	25	3	91	1446.0	55.0	24.35	20000	1451.55	13.78	
FC3	Q1022	25	3	91	1449.6	55.0	24.35	20000	1444.90	13.84	
AQ1	Q1026	31	3	91	1447.8	49.0	24.80	21000	1447.21	14.51	
AQ10	Q1042	31	3	91	1438.8	49.0	24.80	12000	1440.25	8.33	
AQ2	Q1028	31	3	91	1442.4	49.0	24.80	13000	1476.53	8.80	
AQ3	Q1030	31	3	91	1444.8	49.0	24.80	11000	1438.07	7.65	
AQ5	Q1034	31	3	91	1449.0	49.0	24.80	14000	1460.72	9.58	
AQ5-C	Q1035	31	3	91	1441.8	49.0	24.80	13000	1461.62	8.89	

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AQ9	Q1040	31	3	91	1443.0	49.0	24.80	12000	1460.80	8.21	
QI1	Q1087	4	4	91	1405.8	56.0	24.77	37000	1423.14	26.00	
QI2	Q1088	4	4	91	1441.2	56.0	24.77	22000	1463.06	15.04	
AQ1	Q1055	6	4	91	1448.4	66.0	24.48	30000	1447.81	20.72	
AQ2	Q1057	6	4	91	1446.0	66.0	24.48	29000	1480.21	19.59	
AQ3	Q1059	6	4	91	1445.4	66.0	24.48	25000	1438.67	17.38	
AQ5-C	Q1062	6	4	91	1444.2	66.0	24.48	35000	1464.06	23.91	
AQ9	Q1069	6	4	91	1441.8	66.0	24.48	33000	1459.58	22.61	
FC1	Q1081	6	4	91	1447.2	66.0	24.48	30000	1452.75	20.65	
QI1	Q1077	6	4	91	1462.8	66.0	24.48	340000	1480.84	229.60	
QI2	Q1079	6	4	91	1428.6	66.0	24.48	26000	1450.26	17.93	
AQ1	Q1111	12	4	91	1449.0	30.0	24.53	10000	1448.41	6.90	
AQ2	Q1090	12	4	91	1440.6	30.0	24.53	11000	1474.68	7.46	
AQ3	Q1092	12	4	91	1442.4	30.0	24.53	7700	1435.68	5.36	
AQ5	Q1096	12	4	91	1447.2	30.0	24.53	7700	1458.90	5.28	
AQ5-C	Q1097	12	4	91	1437.6	30.0	24.53	7800	1457.36	5.35	
AQ9	Q1102	12	4	91	1441.8	30.0	24.53	8100	1459.58	5.55	
QI2	Q1113	12	4	91	1441.8	30.0	24.53	8400	1463.66	5.74	
AQ1	Q1115	18	4	91	1448.4	41.0	24.56	52000	1447.81	35.92	
AQ2	Q1117	18	4	91	1445.4	41.0	24.56	59000	1479.60	39.88	
AQ3	Q1119	18	4	91	1447.2	41.0	24.56	43000	1440.46	29.85	
AQ5	Q1123	18	4	91	1453.2	41.0	24.56	47000	1464.95	32.08	
AQ5-C	Q1124	18	4	91	1444.8	41.0	24.56	45000	1464.66	30.72	
AQ9	Q1129	18	4	91	1442.4	41.0	24.56	41000	1460.19	28.08	
FC1	Q1136	18	4	91	1443.6	41.0	24.56	50000	1449.14	34.50	
QI1	Q1140	18	4	91	1448.4	41.0	24.56	47000	1466.26	32.05	
QI2	Q1142	18	4	91	1435.2	41.0	24.56	45000	1456.96	30.89	
AQ1	Q1146	24	4	91	1449.0	52.0	24.49	24000	1448.41	16.57	
AQ10	Q1163	24	4	91	1442.4	52.0	24.49	21000	1443.85	14.54	
AQ2	Q1148	24	4	91	1444.2	52.0	24.49	23000	1478.37	15.56	
AQ3	Q1150	24	4	91	1448.4	52.0	24.49	16000	1441.65	11.10	
AQ5	Q1154	24	4	91	1450.2	52.0	24.49	21000	1461.93	14.36	
AQ5-C	Q1156	24	4	91	1443.0	52.0	24.49	22000	1462.84	15.04	
AQ9	Q1161	24	4	91	1443.6	52.0	24.49	18000	1461.40	12.32	
QI2	Q1170	24	4	91	1428.6	52.0	24.49	17000	1450.26	11.72	
QI1	Q1171	25	4	91	1429.2	58.0	24.27	27000	1446.83	18.66	
AQ1	Q1173	30	4	91	1449.0	38.0	24.67	19000	1448.41	13.12	
AQ10	Q1189	30	4	91	1437.6	38.0	24.67	19000	1439.05	13.20	
AQ2	Q1174	30	4	91	1442.4	38.0	24.67	19000	1476.53	12.87	
AQ3	Q1177	30	4	91	1446.6	38.0	24.67	15000	1439.86	10.42	
AQ5	Q1181	30	4	91	1452.0	38.0	24.67	19000	1463.74	12.98	
AQ5-C	Q1182	30	4	91	1443.0	38.0	24.67	19000	1462.84	12.99	
AQ9	Q1187	30	4	91	1452.0	38.0	24.67	16000	1469.91	10.89	
FC1	Q1198	30	4	91	1443.6	38.0	24.67	17000	1449.14	11.73	
QI1	Q1196	30	4	91	1428.6	38.0	24.67	17000	1446.22	11.75	
QI2	Q1194	30	4	91	1476.0	38.0	24.67	18000	1498.38	12.01	
AQ1	Q1204	6	5	91	1449.6	54.0	24.65	22000	1449.01	15.18	
AQ10	Q1220	6	5	91	1435.8	54.0	24.65	20000	1437.24	13.92	
AQ2	Q1206	6	5	91	1443.0	54.0	24.65	24000	1477.14	16.25	
AQ3	Q1208	6	5	91	1447.2	54.0	24.65	15000	1440.46	10.41	
AQ5	Q1212	6	5	91	1449.6	54.0	24.65	22000	1461.32	15.05	

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AQ5-C	Q1213	6	5	91	1443.0	54.0	24.65	22000	1462.84	15.04	
AQ9	Q1218	6	5	91	1443.0	54.0	24.65	17000	1460.80	11.64	
QI1	Q1227	6	5	91	1426.2	54.0	24.65	17000	1443.79	11.77	
QI2	Q1225	6	5	91	1479.0	54.0	24.65	20000	1501.43	13.32	
AQ1	Q1230	12	5	91	1446.6	58.0	24.60	30000	692.28	43.34	
AQ10	Q1246	12	5	91	1451.4	58.0	24.60	31000	1385.05	22.38	
AQ2	Q1232	12	5	91	1441.8	58.0	24.60	37000	1369.76	27.01	
AQ3	Q1234	12	5	91	1447.2	58.0	24.60	27000	1378.99	19.58	
AQ5	Q1238	12	5	91	1451.4	58.0	24.60	29000	1391.21	20.85	
AQ5-C	Q1239	12	5	91	1444.8	58.0	24.60	28000	1374.66	20.37	
AQ9	Q1244	12	5	91	1452.0	58.0	24.60	30000	1424.68	21.06	
FC1	Q1255	12	5	91	1445.4	58.0	24.60	26000	1373.18	18.93	
QI1	Q1253	12	5	91	1426.8	58.0	24.60	27000	1369.65	19.71	
QI2	Q1251	12	5	91	1480.2	58.0	24.60	30000	1404.15	21.37	
AQ1	Q1260	18	5	91	1450.8	63.0	24.62	22000	694.29	31.69	
AQ10	Q1277	18	5	91	1438.2	63.0	24.62	32000	1372.45	23.32	
AQ2	Q1262	18	5	91	1441.8	63.0	24.62	31000	1369.76	22.63	
AQ3	Q1264	18	5	91	1448.4	63.0	24.62	24000	1380.13	17.39	
AQ5	Q1269	18	5	91	1449.6	63.0	24.62	30000	1389.49	21.59	
AQ5-C	Q1270	18	5	91	1443.0	63.0	24.62	28000	1372.94	20.39	
AQ9	Q1275	18	5	91	1444.8	63.0	24.62	27000	1417.61	19.05	
QI1	Q1284	18	5	91	1420.8	57.0	24.73	34000	1363.89	24.93	
QI2	Q1282	18	5	91	1481.4	63.0	24.62	34000	1405.28	24.19	
AQ1	Q1286	24	5	91	1444.2	57.0	24.73	21000	691.13	30.38	
AQ10	Q1303	24	5	91	1432.8	57.0	24.73	26000	1367.30	19.02	
AQ2	Q1288	24	5	91	1440.6	57.0	24.73	24000	1368.62	17.54	
AQ3	Q1290	24	5	91	1449.6	57.0	24.73	16000	1381.28	11.58	
AQ5	Q1295	24	5	91	1449.6	57.0	24.73	18000	1389.49	12.95	
AQ5-C	Q1296	24	5	91	1440.0	57.0	24.73	18000	1370.09	13.14	
AQ9	Q1301	24	5	91	1439.4	57.0	24.73	18000	1412.32	12.75	
FC1	Q1311	24	5	91	1452.0	57.0	24.73	18000	1379.45	13.05	
QI1	Q1309	24	5	91	1420.2	57.0	24.73	19000	1363.32	13.94	
QI2	Q1307	24	5	91	1439.4	57.0	24.73	21000	1365.44	15.38	
AQ1	Q1317	30	5	91	1450.2	63.0	24.29	41000	694.00	59.08	
AQ10	Q1333	30	5	91	1436.4	63.0	24.29	49000	1370.73	35.75	
AQ2	Q1319	30	5	91	1443.0	63.0	24.29	55000	1370.90	40.12	
AQ3	Q1321	30	5	91	1449.6	63.0	24.29	37000	1381.28	26.79	
AQ5	Q1325	30	5	91	1450.2	63.0	24.29	39000	1390.06	28.06	
AQ5-C	Q1326	30	5	91	1442.4	63.0	24.29	37000	1372.37	26.96	
AQ9	Q1331	30	5	91	1447.8	63.0	24.29	36000	1420.56	25.34	
QI1	Q1338	30	5	91	1441.8	63.0	24.29	47000	1384.05	33.96	
AQ1	Q1342	5	6	91	1450.8	65.0	24.75	21000	694.29	30.25	
AQ10	Q1358	5	6	91	1435.2	65.0	24.75	28000	1369.59	20.44	
AQ2	Q1344	5	6	91	1444.8	65.0	24.75	29000	1372.61	21.13	
AQ3	Q1346	5	6	91	1449.6	65.0	24.75	21000	1381.28	15.20	
AQ5	Q1350	5	6	91	1450.8	65.0	24.75	27000	1390.64	19.42	
AQ5-C	Q1351	5	6	91	1442.4	65.0	24.75	26000	1372.37	18.95	
AQ9	Q1356	5	6	91	1444.8	65.0	24.75	27000	1417.61	19.05	
FC1	Q1363	5	6	91	1449.6	65.0	24.75	33000	1377.17	23.96	
QI1	Q1367	5	6	91	1443.0	65.0	24.75	45000	1385.20	32.49	
QI2	Q1369	5	6	91	1419.6	65.0	24.75	32000	1346.66	23.76	

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AQ1	Q1371	11	6	91	1377.6	68.0	24.71	25000	659.26	37.92	
AQ10	Q1388	11	6	91	1432.8	68.0	24.71	28000	1367.30	20.48	
AQ3	Q1375	11	6	91	1447.8	68.0	24.71	27000	1379.56	19.57	
AQ5	Q1380	11	6	91	1451.4	68.0	24.71	22000	1391.21	15.81	
AQ5-C	Q1381	11	6	91	1441.8	68.0	24.71	22000	1371.80	16.04	
AQ9	Q1386	11	6	91	1449.0	68.0	24.71	26000	1421.74	18.29	
FC1	Q1393	11	6	91	1447.2	68.0	24.71	37000	1374.89	26.91	
QI1	Q1399	11	6	91	1435.2	68.0	24.71	29000	1377.71	21.05	
QI2	Q1401	11	6	91	1419.0	68.0	24.71	30000	1346.09	22.29	
AQ1	Q1403	17	6	91	1441.8	72.0	24.72	34000	689.98	49.28	
AQ10	Q1420	17	6	91	1428.0	72.0	24.72	35000	1362.72	25.68	
AQ2	Q1406	17	6	91	1435.8	72.0	24.72	49000	1364.06	35.92	
AQ3	Q1408	17	6	91	1441.2	72.0	24.72	30000	1373.27	21.85	
AQ5	Q1412	17	6	91	1445.4	72.0	24.72	29000	1385.46	20.93	
AQ5-C	Q1413	17	6	91	1443.0	72.0	24.72	29000	1372.94	21.12	
AQ9	Q1418	17	6	91	1437.6	72.0	24.72	34000	1410.55	24.10	
FC1	Q1429	17	6	91	1441.2	72.0	24.72	35000	1369.19	25.56	
QI1	Q1425	17	6	91	1434.6	72.0	24.72	54000	1377.14	39.21	
QI2	Q1427	17	6	91	1411.2	72.0	24.72	39000	1338.69	29.13	
AQ1	Q1435	23	6	91	1477.8	70.0	24.76	27000	1408.15	19.17	
AQ10	Q1451	23	6	91	1440.6	70.0	24.76	27000	1395.14	19.35	
AQ2	Q1437	23	6	91	1440.0	70.0	24.76	28000	1368.05	20.47	
AQ3	Q1439	23	6	91	1446.6	70.0	24.76	24000	1378.42	17.41	
AQ5	Q1443	23	6	91	1449.6	70.0	24.76	23000	1389.49	16.55	
AQ5-C	Q1444	23	6	91	1443.6	70.0	24.76	23000	1373.51	16.75	
AQ9	Q1449	23	6	91	1445.4	70.0	24.76	28000	1418.20	19.74	
FC1	Q1456	23	6	91	1447.2	70.0	24.76	25000	1374.89	18.18	
QI1	Q1460	23	6	91	1440.6	70.0	24.76	25000	1382.90	18.08	
QI2	Q1462	23	6	91	1420.2	70.0	24.76	25000	1347.23	18.56	
AQ1	Q1464	29	6	91	1447.2	75.0	24.68	41000	1378.99	29.73	
AQ10	Q1480	29	6	91	1436.4	75.0	24.68	52000	1391.07	37.38	
AQ2	Q1466	29	6	91	1434.0	75.0	24.68	55000	1362.35	40.37	
AQ3	Q1468	29	6	91	1441.2	75.0	24.68	42000	1373.27	30.58	
AQ5	Q1472	29	6	91	1444.8	75.0	24.68	42000	1384.88	30.33	
AQ5-C	Q1473	29	6	91	1441.2	75.0	24.68	41000	1371.23	29.90	
AQ9	Q1478	29	6	91	1439.4	75.0	24.68	49000	1412.32	34.69	
FC1	Q1485	29	6	91	1441.2	75.0	24.68	64000	1369.19	46.74	
QI1	Q1489	29	6	91	1440.6	75.0	24.68	60000	1382.90	43.39	
QI2	Q1491	29	6	91	1406.4	75.0	24.68	58000	1334.14	43.47	
AQ1	Q0000608	5	7	91	1448.4	81.0	24.73	35000	1380.13	25.36	
AQ10	Q0000624	5	7	91	1442.4	81.0	24.73	38000	1396.88	27.20	
AQ2	Q0000610	5	7	91	1444.8	81.0	24.73	51000	1372.61	37.16	
AQ3	Q0000612	5	7	91	1446.6	81.0	24.73	39000	1378.42	28.29	
AQ5	Q0000616	5	7	91	1452.6	81.0	24.73	30000	1392.36	21.55	
AQ5-C	Q0000617	5	7	91	1443.0	81.0	24.73	30000	1372.94	21.85	
AQ9	Q0000622	5	7	91	1444.2	81.0	24.73	38000	1417.03	26.82	
QI1	Q0000629	5	7	91	1449.6	81.0	24.73	40000	1391.54	28.75	
QI2	Q0000631	5	7	91	1416.6	81.0	24.73	42000	1343.81	31.25	
AQ1	Q0000633	11	7	91	1448.4	71.0	24.87	27000	1380.13	19.56	
AQ10	Q0000649	11	7	91	1443.0	71.0	24.87	25000	1397.46	17.89	
AQ2	Q0000635	11	7	91	1444.2	71.0	24.87	45000	1372.04	32.80	



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AQ3	Q0000637	11	7	91	1447.2	71.0	24.87	23000	1378.99	16.68	
AQ5	Q0000641	11	7	91	1450.2	71.0	24.87	20000	1390.06	14.39	
AQ5-C	Q0000642	11	7	91	1443.0	71.0	24.87	24000	1372.94	17.48	
AQ9	Q0000647	11	7	91	1440.6	71.0	24.87	22000	1413.49	15.56	
FC1	Q0000653	11	7	91	1450.2	71.0	24.87	26000	1377.74	18.87	
QI1	Q0000659	11	7	91	1447.2	71.0	24.87	26000	1389.23	18.72	
QI2	Q0000661	11	7	91	1418.4	71.0	24.87	33000	1345.52	24.53	
AQ1	Q0000668	17	7	91	1447.8	78.0	24.82	37000	1379.56	26.82	
AQ10	Q0000684	17	7	91	1442.4	78.0	24.82	41000	1396.88	29.35	
AQ2	Q0000670	17	7	91	1441.8	78.0	24.82	50000	1369.76	36.50	
AQ3	Q0000672	17	7	91	1447.2	78.0	24.82	32000	1378.99	23.21	
AQ5	Q0000676	17	7	91	1449.6	78.0	24.82	36000	1389.49	25.91	
AQ5-C	Q0000677	17	7	91	1443.6	78.0	24.82	36000	1373.51	26.21	
AQ9	Q0000682	17	7	91	1440.0	78.0	24.82	35000	1412.91	24.77	
QI1	Q0000692	17	7	91	1447.8	78.0	24.82	42000	1389.81	30.22	
QI2	Q0000694	17	7	91	1413.0	78.0	24.82	47000	1340.40	35.06	
AQ1	Q0000697	23	7	91	1449.6	58.0	25.05	7200	1381.28	5.21	
AQ10	Q2016	23	7	91	1443.0	58.0	25.05	5200	1397.46	3.72	
AQ2	Q2000	23	7	91	1440.6	58.0	25.05	2800	1368.62	2.05	
AQ3	Q2004	23	7	91	1452.0	58.0	25.05	6000	1383.56	4.34	
AQ5	Q2008	23	7	91	1451.4	58.0	25.05	5400	1391.21	3.88	
AQ5-C	Q2009	23	7	91	1445.4	58.0	25.05	4300	1375.23	3.13	
AQ9	Q2014	23	7	91	1452.6	58.0	25.05	5300	1425.27	3.72	
FC1	Q2024	23	7	91	1449.6	58.0	25.05	5500	1377.17	3.99	
QI1	Q2020	23	7	91	1450.8	58.0	25.05	6600	1392.69	4.74	
QI2	Q2022	23	7	91	1419.0	58.0	25.05	8100	1346.09	6.02	
AQ1	Q-1507	29	7	91	1452.0	77.4	24.71	35000	1377.40	25.41	
AQ10	Q-1524	29	7	91	1444.2	77.4	24.71	27000	1394.53	19.36	
AQ2	Q-1510	29	7	91	1443.6	77.4	24.71	40000	1391.91	28.74	
AQ3	Q-1512	29	7	91	1450.2	77.4	24.71	27000	1390.06	19.42	
AQ5	Q-1516	29	7	91	1455.6	77.4	24.71	25000	1405.54	17.79	
AQ5-C	Q-1517	29	7	91	1452.6	77.4	24.71	25000	1382.08	18.09	
AQ9	Q-1522	29	7	91	1443.6	77.4	24.71	27000	1416.44	19.06	
QI1	Q-1528	29	7	91	1446.0	77.4	24.71	29000	1312.33	22.10	
QI2	Q-1530	29	7	91	1417.2	77.4	24.71	34000	1344.38	25.29	
AQ1	Q-1534	4	8	91	1447.2	63.4	24.87	13000	1372.84	9.47	
AQ10	Q-1550	4	8	91	1438.8	63.4	24.87	12000	1389.32	8.64	
AQ2	Q-1536	4	8	91	1437.6	63.4	24.87	13000	1386.13	9.38	
AQ3	Q-1538	4	8	91	1445.4	63.4	24.87	10000	1385.46	7.22	
AQ5	Q-1542	4	8	91	1447.8	63.4	24.87	12000	1398.01	8.58	
AQ5-C	Q-1543	4	8	91	1438.8	63.4	24.87	12000	1368.95	8.77	
FC1	Q-1559	4	8	91	1445.4	63.4	24.87	11000	1377.27	7.99	
QI1	Q-1555	4	8	91	1446.6	63.4	24.87	12000	1312.88	9.14	
QI2	Q-1557	4	8	91	1416.6	63.4	24.87	11000	1343.81	8.19	
AQ1	Q-1564	10	8	91	1444.2	68.0	24.83	33000	1406.80	23.46	
AQ10	Q-1580	10	8	91	1438.8	68.0	24.83	25000	1411.73	17.71	
AQ2	Q-1566	10	8	91	1438.2	68.0	24.83	31000	1386.70	22.36	
AQ3	Q-1568	10	8	91	1444.2	68.0	24.83	27000	1384.31	19.50	
AQ5	Q-1572	10	8	91	1446.0	68.0	24.83	25000	1396.27	17.90	
AQ5-C	Q-1573	10	8	91	1437.0	68.0	24.83	25000	1389.62	17.99	
AQ9	Q-1578	10	8	91	1438.8	68.0	24.83	25000	1411.73	17.71	

## SRANNPM.XLS

QI1	Q-1584	10	8	91	1446.6	68.0	24.83	26000	1312.88	19.80	
QI2	Q-1586	10	8	91	1421.4	68.0	24.83	29000	1348.37	21.51	
AQ1	Q-1589	16	8	91	1458.0	68.6	24.86	29000	1420.2	20.42	
AQ10	Q-2051	16	8	91	1455.6	68.6	24.86	25000	1428.2	17.50	
AQ2	Q-1591	16	8	91	1444.8	68.6	24.86	36000	1393.1	25.84	
AQ3	Q-1593	16	8	91	1450.2	68.6	24.86	22000	1390.1	15.83	
AQ5	Q-1597	16	8	91	1455.6	68.6	24.86	26000	1405.5	18.50	
AQ5-C	Q-1598	16	8	91	1452.0	68.6	24.86	26000	1404.1	18.52	
AQ9	Q-1605	16	8	91	1446.0	68.6	24.86	22000	1418.8	15.51	
FC1	Q-2059	16	8	91	1451.4	68.6	24.86	26000	1382.99	18.80	
QI1	Q-2055	16	8	91	1447.2	68.6	24.86	27000	1313.42	20.56	
QI2	Q-2057	16	8	91	1451.4	68.6	24.86	51000	1376.83	37.04	
AQ1	Q-2066	22	8	91	1450.8	74.2	24.91	38000	1413.2	26.89	
AQ10	Q-2082	22	8	91	1445.4	74.2	24.91	30000	1418.2	21.15	
AQ2	Q-2068	22	8	91	1446.0	74.2	24.91	52000	1394.2	37.30	
AQ3	Q-2070	22	8	91	1449.0	74.2	24.91	29000	1388.9	20.88	
AQ5-C	Q-2075	22	8	91	1448.4	74.2	24.91	29000	1400.6	20.70	
AQ9	Q-2080	22	8	91	1444.2	74.2	24.91	30000	1417	21.17	
QI1	Q-2086	22	8	91	1450.8	74.2	24.91	40000	1316.7	30.38	
QI2	Q-2088	22	8	91	1451.4	74.2	24.91	65000	1376.8	47.21	
AQ1	Q-2091	28	8	91	1440.0	66.2	24.86	25000	1402.7	17.82	
AQ10	Q-2107	28	8	91	1431.0	66.2	24.86	22000	1404.1	15.67	
AQ2	Q-2093	28	8	91	1432.8	66.2	24.86	25000	1381.5	18.10	
AQ3	Q-2095	28	8	91	1446.6	66.2	24.86	19000	1386.6	13.70	
AQ5-C	Q-2100	28	8	91	1433.4	66.2	24.86	19100	1386.1	13.78	
FC1	Q-2115	28	8	91	1132.2	66.2	24.86	16000	1078.8	14.83	
AQ1	Q-2120	3	9	91	1444.8	67.6	25.01	55000	1407.4	39.08	
AQ10	Q-0210	3	9	91	1441.8	67.6	25.01	51000	1414.7	36.05	
AQ2	Q-2122	3	9	91	1437.6	67.6	25.01	63000	1386.1	45.45	
AQ3	Q-2124	3	9	91	1447.2	67.6	25.01	49000	1387.2	35.32	
AQ5	Q-0202	3	9	91	1446.0	67.6	25.01	44000	1396.3	31.51	
AQ5-C	Q-0203	3	9	91	1437.6	67.6	25.01	45000	1390.2	32.37	
AQ9	Q-0208	3	9	91	1438.8	67.6	25.01	130000	1411.7	92.09	
QI1	Q-0217	3	9	91	1446.0	67.6	25.01	46000	1207.9	38.08	
AQ1	Q-0220	9	9	91	1455.0	64.9	24.88	17000	1417.3	11.99	
AQ10	Q-0236	9	9	91	1444.2	64.9	24.88	17000	1417	12.00	
AQ2	Q-0222	9	9	91	1443.0	64.9	24.88	17000	1391.3	12.22	
AQ3	Q-0224	9	9	91	1451.4	64.9	24.88	17000	1391.2	12.22	
AQ5	Q-0228	9	9	91	1461.6	64.9	24.88	16000	1411.3	11.34	
AQ5-C	Q-0229	9	9	91	1449.6	64.9	24.88	20000	1401.8	14.27	
AQ9	Q-0234	9	9	91	1443.0	64.9	24.88	17000	1415.8	12.01	
FC1	Q-0241	9	9	91	1451.4	64.9	24.88	20000	1383	14.46	
QI1	Q-0239	9	9	91	1473.0	64.9	24.88	29000	1230.5	23.57	
QI2	Q-0214	9	9	91	1458.0	64.9	24.88	19000	1383.1	13.74	
AQ1	Q-0245	15	9	91	1446.6	54.9	24.86	31000	1423.5	21.78	
AQ10	Q-0262	15	9	91	1442.4	54.9	24.86	23000	1427.5	16.11	
AQ2	Q-0247	15	9	91	1437.0	54.9	24.86	24000	1428.3	16.80	
AQ3	Q-0249	15	9	91	1444.8	54.9	24.86	18000	1384.9	13.00	
AQ5	Q-0253	15	9	91	1449.0	54.9	24.86	22000	1427.9	15.41	
AQ5-C	Q-0254	15	9	91	1440.0	54.9	24.86	21000	1402.7	14.97	
AQ9	Q-0259	15	9	91	1447.8	54.9	24.86	20000	1420.6	14.08	

## SRANNPM.XLS

QI1	Q-0266	15	9	91	1454.4	54.9	24.86	17000	1214.9	13.99	
QI2	Q-0268	15	9	91	1446.6	54.9	24.86	19000	1372.3	13.85	
AQ1	Q-0270	21	9	91	1450.2	54.9	24.86	54000	1427	37.84	
AQ10	Q-0286	21	9	91	1442.4	54.9	24.86	34000	1427.5	23.82	
AQ2	Q-0272	21	9	91	1440.0	54.9	24.86	54000	1431.3	37.73	
AQ3	Q-0274	21	9	91	1444.2	54.9	24.86	38000	1396.6	27.21	
AQ5	Q-0278	21	9	91	1452.0	54.9	24.86	33000	1430.8	23.06	
AQ5-C	Q-0279	21	9	91	1446.6	54.9	24.86	32000	1409.1	22.71	
FC1	Q-0290	21	9	91	1441.2	54.9	24.86	39000	1446.7	26.96	
QI1	Q-0296	21	9	91	1447.8	54.9	24.86	33000	1209.4	27.29	
QI2	Q-0298	21	9	91	1450.2	54.9	24.86	52000	1390.1	37.41	
AQ1	Q-0301	27	9	91	1445.4	63.2	24.83	100000	1422.3	70.31	
AQ10	Q-0317	27	9	91	1436.4	63.2	24.83	68000	1421.6	47.83	
AQ2	Q-0303	27	9	91	1438.8	63.2	24.83	110000	1430.1	76.92	
AQ3	Q-0305	27	9	91	1441.8	63.2	24.83	67000	1394.3	48.05	
AQ5	Q-0309	27	9	91	1445.4	63.2	24.83	57000	1424.3	40.02	
AQ5-C	Q-0310	27	9	91	1441.8	63.2	24.83	55000	1404.5	39.16	
AQ9	Q-0315	27	9	91	1439.4	63.2	24.83	61000	1542.7	39.54	

## APPENDIX C

### ARSENIC, METALS AND MERCURY DATA

- C1    CMP Listing
- C2    IRA-F Listing

C1 CMP LISTING

05/11/92

WOODWARD-CLYDE CONSULTANTS

ROCKY MOUNTAIN ARSENAL PROGRAM

## SUMMARY OF ARSENIC AND METALS CONCENTRATIONS

ALL UNITS ARE IN UG/M3

FIELD		SITE ID	ARSENIC RESULTS	CADMIUM RESULTS	CHROMIUM RESULTS	COPPER RESULTS	LEAD RESULTS	ZINC RESULTS
SAMPLE NUMBER	DATE							
01/24/91 Q756		CAQ3	LT 0.000865	LT 0.002450	LT 0.012300	0.140000	LT 0.024500	0.036000
01/24/91 Q760		CAQ5	LT 0.000865	LT 0.002450	LT 0.012300	0.257000	0.029400	0.055800
01/24/91 Q759		CAQ5	LT 0.000865	LT 0.002450	LT 0.012300	0.306000	0.031800	0.063200
01/24/91 Q773		CFC1	LT 0.000865	LT 0.002450	LT 0.012300	0.155000	0.036800	0.039300
01/24/91 Q774		CFC3	LT 0.000865	0.017300	LT 0.012300	0.061900	0.028000	0.035400
01/24/91 Q775		CFC4	LT 0.000865	LT 0.002450	LT 0.012300	0.067300	LT 0.024500	0.032100
01/24/91 Q776		CFC5	LT 0.000865	LT 0.002450	LT 0.012300	0.078900	0.029400	0.029700
01/30/91 Q783		CAQ3	LT 0.000865	LT 0.002450	LT 0.012300	0.067700	0.024500	0.028900
01/30/91 Q787		CAQ5	LT 0.000865	LT 0.002450	LT 0.012300	0.203000	0.032400	0.071500
01/30/91 Q786		CAQ5	LT 0.000865	LT 0.002450	LT 0.012300	0.158000	0.036100	0.061400
02/05/91 Q810		CAQ3	LT 0.000865	LT 0.002450	LT 0.012300	0.136000	LT 0.024500	0.033900
02/05/91 Q813		CAQ5	LT 0.000865	LT 0.002450	LT 0.012300	0.147000	0.029700	0.070000
02/05/91 Q814		CAQ5	LT 0.000865	LT 0.002450	LT 0.012300	0.312000	LT 0.024500	0.063500
02/05/91 Q800		CFC1	LT 0.000865	LT 0.002450	LT 0.012300	0.257000	LT 0.024500	0.055000
02/05/91 Q802		CFC3	LT 0.000865	LT 0.002450	LT 0.012300	0.106000	LT 0.024500	0.054700
02/05/91 Q804		CFC4	LT 0.000865	LT 0.002450	LT 0.012300	0.128000	LT 0.024500	0.056000
02/05/91 Q805		CFC5	LT 0.000865	LT 0.002450	0.025300	0.121000	0.088800	0.055600
02/11/91 Q831		CAQ3	LT 0.000865	LT 0.002450	LT 0.012300	0.171000	LT 0.024500	0.027800
02/11/91 Q835		CAQ5	LT 0.000865	LT 0.002450	0.031000	0.221000	LT 0.024500	0.055100
02/11/91 Q834		CAQ5	LT 0.000865	LT 0.002450	LT 0.012300	0.071700	LT 0.024500	0.061700
02/17/91 Q852		CAQ3	LT 0.000865	LT 0.002450	LT 0.012300	0.123000	LT 0.024500	LT 0.012300
02/17/91 Q855		CAQ5	LT 0.000865	LT 0.002450	LT 0.012300	0.115000	LT 0.024500	0.024500
02/17/91 Q856		CAQ5	LT 0.000865	LT 0.002450	LT 0.012300	0.164000	LT 0.024500	0.023700
02/17/91 Q869		CFC1	LT 0.000865	LT 0.002450	LT 0.012300	0.166000	LT 0.024500	0.018600
02/17/91 Q871		CFC3	LT 0.000865	LT 0.002450	LT 0.012300	0.049700	LT 0.024500	0.014500
02/17/91 Q873		CFC4	LT 0.000865	LT 0.002450	LT 0.012300	0.107000	LT 0.024500	0.017300
02/17/91 Q874		CFC5	0.000977	LT 0.002450	LT 0.012300	0.098900	LT 0.024500	0.016000
02/23/91 Q879		CAQ3	LT 0.000865	LT 0.002450	LT 0.012300	0.104000	LT 0.024500	0.021100
02/23/91 Q882		CAQ5	LT 0.000865	LT 0.002450	LT 0.012300	0.099400	LT 0.024500	0.040400
03/01/91 Q896		CAQ1	LT 0.000865	LT 0.002450	LT 0.012300	0.091600	LT 0.024500	0.049800
03/01/91 Q912		CAQ10	LT 0.000865	LT 0.002450	LT 0.012300	0.076900	LT 0.024500	0.033700

# ROCKY MOUNTAIN ARSENAL PROGRAM

ALL UNITS ARE IN UG/M3

FIELD	SAMPLE DATE	SAMPLE NUMBER	SITE ID	ARSENIC		CADMIUM		CHROMIUM		COPPER		LEAD		ZINC	
				RESULTS		RESULTS		RESULTS		RESULTS		RESULTS		RESULTS	
	03/01/91	Q914	CAQ11	LT	0.000865	LT	0.002450	LT	0.012300		0.028800	LT	0.024500		0.033400
	03/01/91	Q915	CAQ12	LT	0.000865	LT	0.002450	LT	0.012300		0.023900	LT	0.024500		0.025800
	03/01/91	Q898	CAQ2	LT	0.000865	LT	0.002450		0.016600		0.052900	LT	0.024500		0.052400
	03/01/91	Q900	CAQ3	LT	0.000865	LT	0.002450	LT	0.012300		0.058400	LT	0.024500		0.036200
	03/01/91	Q902	CAQ4	LT	0.000865	LT	0.002450	LT	0.012300		0.082800	LT	0.024500		0.027000
	03/01/91	Q903	CAQ5		0.001120	LT	0.002450	LT	0.012300		0.096400	LT	0.024500		0.062600
	03/01/91	Q904	CAQ5	LT	0.000865	LT	0.002450	LT	0.012300		0.133000	LT	0.024500		0.054200
	03/01/91	Q907	CAQ6	LT	0.000865	LT	0.002450	LT	0.012300		0.059700	LT	0.024500		0.028100
	03/01/91	Q908	CAQ7	LT	0.000865	LT	0.002450	LT	0.012300		0.057000	LT	0.024500		0.035500
	03/01/91	Q909	CAQ8		0.000987	LT	0.002450	LT	0.012300		0.032300	LT	0.024500		0.028700
	03/01/91	Q910	CAQ9	LT	0.000865	LT	0.002450	LT	0.012300		0.025000	LT	0.024500		0.026400
	03/01/91	Q917	CFE1	LT	0.000865	LT	0.002450	LT	0.012300		0.120000	LT	0.024500		0.039900
	03/01/91	Q923	CFE2	LT	0.000865	LT	0.002450	LT	0.012300		0.085400	LT	0.024500		0.037200
	03/01/91	Q919	CFE3		0.000000	LT	0.002450	LT	0.012300		0.042300	LT	0.024500		0.032900
	03/01/91	Q920	CFE3	LT	0.000865		0.000000		0.000000		0.000000		0.000000		0.000000
	03/01/91	Q921	CFE4	LT	0.000865	LT	0.002450	LT	0.012300		0.052500	LT	0.024500		0.032600
	03/01/91	Q922	CFE5	LT	0.000865	LT	0.002450	LT	0.012300		0.074700	LT	0.024500		0.041400
	03/07/91	Q928	CAQ3	LT	0.000865	LT	0.002450	LT	0.012300		0.000000	LT	0.024500		0.017500
	03/07/91	Q931	CAQ5	LT	0.000865	LT	0.002450	LT	0.012300		0.000000	LT	0.024500		0.020400
	03/07/91	Q949	CAQ3	LT	0.000865	LT	0.002450	LT	0.012300		0.000000	LT	0.024500		0.016700
	03/13/91	Q952	CAQ5	LT	0.000865	LT	0.002450	LT	0.012300		0.000000	LT	0.024500		0.000000
	03/13/91	Q966	CFE1	LT	0.000865	LT	0.002450	LT	0.012300		0.000000	LT	0.024500		0.019000
	03/13/91	Q968	CFE2	LT	0.000865	LT	0.002450	LT	0.012300		0.000000	LT	0.024500		0.018600
	03/13/91	Q969	CFE3	LT	0.000865	LT	0.002450	LT	0.012300		0.000000	LT	0.024500		0.015200
	03/13/91	Q971	CFE4	LT	0.000865	LT	0.002450	LT	0.012300		0.000000	LT	0.024500		0.017500
	03/13/91	Q972	CFE5	LT	0.000865	LT	0.002450	LT	0.012300		0.000000	LT	0.024500		0.016400
	03/19/91	Q973	CAQ1		0.001540	LT	0.002450		0.013100		0.000000	LT	0.024500		0.000000
	03/19/91	Q989	CAQ10	LT	0.000865	LT	0.002450	LT	0.012300		0.049200	LT	0.024500		0.027600
	03/19/91	Q991	CAQ11		0.004190	LT	0.002450	LT	0.012300		0.085300	LT	0.024500		0.039200
	03/19/91	Q992	CAQ12		0.004980	LT	0.002450	LT	0.012300		0.028900	LT	0.024500		0.024100
	03/19/91	Q975	CAQ2		0.000319	LT	0.002450	LT	0.012300		0.052200	LT	0.024500		0.039600

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## WOODWARD-CLYDE CONSULTANTS

## ROCKY MOUNTAIN ARSENAL PROGRAM

## SUMMARY OF ARSENIC AND METALS CONCENTRATIONS

ALL UNITS ARE IN UG/M3

FIELD SAMPLE DATE	SAMPLE NUMBER	SITE ID	ARSENIC RESULTS	CADMIUM RESULTS	CHROMIUM RESULTS	COPPER RESULTS	LEAD RESULTS	ZINC RESULTS
03/19/91	Q978	CA03	LT	0.000865	LT	0.002450	LT	0.012300
03/19/91	Q979	CA04	LT	0.000865	LT	0.002450	LT	0.019700
03/19/91	Q981	CA05	LT	0.000865	LT	0.002450	LT	0.044700
03/19/91	Q980	CA05	LT	0.001300	LT	0.002830	LT	0.000000
03/19/91	Q984	CA06	LT	0.000865	LT	0.002450	LT	0.023400
03/19/91	Q985	CA07	LT	0.000939	LT	0.002450	LT	0.037200
03/19/91	Q986	CA08	LT	0.001740	LT	0.002450	LT	0.037800
03/19/91	Q987	CA09	LT	0.001480	LT	0.002450	LT	0.024300
03/19/91	Q1046	CFC2	LT	0.003180	LT	0.002450	LT	0.000000
03/19/91	Q1047	CFC3	LT	0.001080	LT	0.002450	LT	0.023400
03/19/91	Q1048	CFC4	LT	0.001210	LT	0.002450	LT	0.000000
03/19/91	Q1049	CFC5	LT	0.002630	LT	0.002450	LT	0.000000
03/25/91	Q994	CA01	LT	0.000865	LT	0.002450	LT	0.000000
03/25/91	Q998	CA03	LT	0.000865	LT	0.002450	LT	0.019200
03/25/91	Q1003	CA04	LT	0.000865	LT	0.002450	LT	0.021300
03/25/91	Q1004	CA05	LT	0.000865	LT	0.002450	LT	0.000000
03/25/91	Q1005	CA05	LT	0.000865	LT	0.002450	LT	0.000000
03/25/91	Q1018	CFC1	LT	0.000865	LT	0.002450	LT	0.000000
03/25/91	Q1020	CFC2	LT	0.000865	LT	0.002450	LT	0.000000
03/25/91	Q1021	CFC3	LT	0.000865	LT	0.002450	LT	0.000000
03/25/91	Q1023	CFC4	LT	0.000865	LT	0.002450	LT	0.000000
03/31/91	Q1029	CA03	LT	0.000865	LT	0.002450	LT	0.024400
03/31/91	Q1032	CA05	LT	0.000865	LT	0.002450	LT	0.012300
04/04/91	Q1086	C011	LT	0.000865	LT	0.002450	LT	0.019800
04/04/91	Q1052	C012	LT	0.000865	LT	0.002450	LT	0.000000
04/06/91	Q1058	CA03	LT	0.000865	LT	0.002450	LT	0.000000
04/06/91	Q1064	CA05	LT	0.000865	LT	0.002450	LT	0.021300
04/06/91	Q1061	CA05	LT	0.000865	LT	0.002450	LT	0.012300
04/06/91	Q1080	CFC1	LT	0.000865	LT	0.002450	LT	0.000000
04/06/91	Q1083	CFC5	LT	0.000865	LT	0.002450	LT	0.000000
04/06/91	Q1076	C011	LT	0.000865	LT	0.002450	LT	0.023400



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FIELD	SAMPLE DATE	SAMPLE NUMBER	SITE ID	ARSENIC		CADMIUM		CHROMIUM		COPPER		LEAD		ZINC	
				RESULTS	UNIT	RESULTS	UNIT	RESULTS	UNIT	RESULTS	UNIT	RESULTS	UNIT	RESULTS	UNIT
FIELD	04/06/91	Q1078	CQ12	0.000981	LT	0.002450	LT	0.017400	LT	0.000000	LT	0.024500	LT	0.021600	LT
	04/16/91	Q1091	CA03	0.000865	LT	0.002450	LT	0.012300	LT	0.064500	LT	0.024500	LT	0.012300	LT
	04/16/91	Q1094	CA05	0.000865	LT	0.002450	LT	0.012300	LT	0.102000	LT	0.024500	LT	0.012300	LT
	04/16/91	Q1085	CQ11	0.000865	LT	0.002450	LT	0.012300	LT	0.045600	LT	0.024500	LT	0.012300	LT
	04/16/91	Q1112	CQ12	0.000865	LT	0.002450	LT	0.012300	LT	0.038400	LT	0.024500	LT	0.012300	LT
	04/18/91	Q1118	CA03	0.000865	LT	0.002450	LT	0.012300	LT	0.061400	LT	0.024500	LT	0.028400	LT
	04/18/91	Q1121	CA05	0.001040	LT	0.002450	LT	0.012300	LT	0.112000	LT	0.024500	LT	0.026700	LT
	04/18/91	Q1135	CFC1	0.000865	LT	0.002450	LT	0.012300	LT	0.045300	LT	0.024500	LT	0.026200	LT
	04/18/91	Q1137	CFC2	0.000865	LT	0.002450	LT	0.012300	LT	0.039600	LT	0.024500	LT	0.027300	LT
	04/18/91	Q1138	CFC5	0.007600	LT	0.002450	LT	0.012300	LT	0.050900	LT	0.024500	LT	0.020800	LT
	04/18/91	Q1139	CQ11	0.000865	LT	0.002450	LT	0.012300	LT	0.068300	LT	0.024500	LT	0.023900	LT
	04/18/91	Q1141	CQ12	0.000995	LT	0.002450	LT	0.012300	LT	0.045900	LT	0.024500	LT	0.023700	LT
	04/24/91	Q1149	CA03	0.000865	LT	0.002450	LT	0.012300	LT	0.097800	LT	0.024500	LT	0.014700	LT
	04/24/91	Q1152	CA05	0.000865	LT	0.002450	LT	0.012300	LT	0.086200	LT	0.024500	LT	0.031200	LT
	04/24/91	Q1167	CQ11	0.000865	LT	0.002450	LT	0.012300	LT	0.109000	LT	0.024500	LT	0.033000	LT
	04/24/91	Q1169	CQ12	0.000865	LT	0.002450	LT	0.012300	LT	0.038700	LT	0.024500	LT	0.015500	LT
	04/30/91	Q1176	CA03	0.000865	LT	0.002450	LT	0.012300	LT	0.090800	LT	0.024500	LT	0.012300	LT
	04/30/91	Q1179	CA05	0.000865	LT	0.002450	LT	0.012300	LT	0.117000	LT	0.024500	LT	0.024900	LT
	04/30/91	Q1197	CFC1	0.000865	LT	0.002450	LT	0.012300	LT	0.077700	LT	0.024500	LT	0.016900	LT
	04/30/91	Q1199	CFC2	0.000865	LT	0.002450	LT	0.012300	LT	0.076200	LT	0.024500	LT	0.018200	LT
	04/30/91	Q1200	CFC3	0.000865	LT	0.002450	LT	0.012300	LT	0.055900	LT	0.024500	LT	0.016200	LT
	04/30/91	Q1201	CFC4	0.000865	LT	0.002450	LT	0.012300	LT	0.078700	LT	0.024500	LT	0.017000	LT
	04/30/91	Q1202	CFC5	0.000865	LT	0.002450	LT	0.012300	LT	0.090400	LT	0.024500	LT	0.017100	LT
	04/30/91	Q1193	CQ11	0.000865	LT	0.002450	LT	0.012300	LT	0.071000	LT	0.024500	LT	0.016300	LT
	04/30/91	Q1195	CQ12	0.000865	LT	0.002450	LT	0.012300	LT	0.046300	LT	0.024500	LT	0.020400	LT
	05/06/91	Q1207	CA03	0.000865	LT	0.002450	LT	0.013800	LT	0.115000	LT	0.024500	LT	0.012300	LT
	05/06/91	Q1210	CA05	0.000865	LT	0.002450	LT	0.012300	LT	0.095200	LT	0.024500	LT	0.023200	LT
	05/06/91	Q1211	CA05	0.000865	LT	0.002450	LT	0.012300	LT	0.170000	LT	0.024500	LT	0.048000	LT
05/06/91	Q1224	CQ11	0.000865	LT	0.002450	LT	0.012300	LT	0.067500	LT	0.024500	LT	0.029500	LT	
05/06/91	Q1226	CQ12	0.000865	LT	0.002450	LT	0.012300	LT	0.050600	LT	0.024500	LT	0.025700	LT	
05/12/91	Q1233	CA03	0.000865	LT	0.002450	LT	0.012300	LT	0.155000	LT	0.024500	LT	0.032900	LT	

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## SUMMARY OF ARSENIC AND METALS CONCENTRATIONS

ALL UNITS ARE IN UG/M3

FIELD		SITE ID	ARSENIC RESULTS	CADMIUM RESULTS	CHROMIUM RESULTS	COPPER RESULTS	LEAD RESULTS	ZINC RESULTS
SAMPLE DATE	SAMPLE NUMBER							
05/12/91	Q1237	CAQ5	LT	0.000865	LT	0.002450	LT	0.012300
05/12/91	Q1236	CAQ5	LT	0.000865	LT	0.002450	LT	0.014800
05/12/91	Q1254	CFC1	LT	0.000865	LT	0.002450	LT	0.012300
05/12/91	Q1256	CFC2	LT	0.000865	LT	0.002450	LT	0.013700
05/12/91	Q1250	CQ11	LT	0.000865	LT	0.002450	LT	0.017700
05/12/91	Q1252	CQ12	LT	0.000865	LT	0.002450	LT	0.014300
05/13/91	Q1258	CFC5	LT	0.000865	LT	0.002450	LT	0.034300
05/18/91	Q1263	CAQ3	LT	0.000983	LT	0.002450	LT	0.017100
05/18/91	Q1266	CAQ5	LT	0.001050	LT	0.002450	LT	0.028600
05/18/91	Q1267	CAQ5	LT	0.001040	LT	0.002450	LT	0.020500
05/18/91	Q1281	CQ11	LT	0.001170	LT	0.002450	LT	0.015700
05/18/91	Q1283	CQ12	LT	0.001030	LT	0.002450	LT	0.014900
05/24/91	Q1289	CAQ3	LT	0.000865	LT	0.002450	LT	0.023100
05/24/91	Q1294	CAQ5	LT	0.000865	LT	0.002450	LT	0.044100
05/24/91	Q1293	CAQ5	LT	0.000865	LT	0.002450	LT	0.051300
05/24/91	Q1310	CFC1	LT	0.000865	LT	0.002450	LT	0.026600
05/24/91	Q1312	CFC2	LT	0.000865	LT	0.002450	LT	0.022000
05/24/91	Q1313	CFC3	LT	0.000865	LT	0.002450	LT	0.019100
05/24/91	Q1314	CFC4	LT	0.000865	LT	0.002450	LT	0.025100
05/24/91	Q1315	CFC5	LT	0.000865	LT	0.002450	LT	0.022300
05/24/91	Q1306	CQ11	LT	0.000865	LT	0.002450	LT	0.022200
05/24/91	Q1308	CQ12	LT	0.000865	LT	0.002450	LT	0.021900
05/30/91	Q1320	CAQ3	LT	0.000865	LT	0.002450	LT	0.034900
05/30/91	Q1323	CAQ5	LT	0.000865	LT	0.002450	LT	0.032300
05/30/91	Q1324	CAQ5	LT	0.000865	LT	0.002450	LT	0.028400
05/30/91	Q1337	CQ11	LT	0.000865	LT	0.002450	LT	0.031200
06/05/91	Q1345	CAQ3	LT	0.000865	LT	0.002450	LT	0.033300
06/05/91	Q1348	CAQ5	LT	0.000865	LT	0.002450	LT	0.035000
06/05/91	Q1349	CAQ5	LT	0.000865	LT	0.002450	LT	0.029700
06/05/91	Q1362	CFC1	LT	0.000865	LT	0.002450	LT	0.026000
06/05/91	Q1364	CFC2	LT	0.000865	LT	0.002450	LT	0.031800

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SUMMARY OF ARSENIC AND METALS CONCENTRATIONS

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FIELD SAMPLE DATE	SAMPLE NUMBER	SITE ID	ARSENIC RESULTS	CADMIUM RESULTS	CHROMIUM RESULTS	COPPER RESULTS	LEAD RESULTS	ZINC RESULTS
06/05/91	Q1365	CFC5	LT 0.000865	LT 0.002450	LT 0.012300	0.078400	LT 0.024500	0.021500
06/05/91	Q1366	CQ11	LT 0.000865	LT 0.002450	LT 0.012300	0.058300	LT 0.024500	0.026600
06/05/91	Q1368	CQ12	LT 0.000865	LT 0.002450	LT 0.012300	0.061300	LT 0.024500	0.029200
06/11/91	Q1374	CA03	LT 0.000865	LT 0.002450	LT 0.012300	0.096500	LT 0.024500	0.026000
06/11/91	Q1377	CA05	LT 0.000865	LT 0.002450	LT 0.012300	0.067300	LT 0.024500	0.024600
06/11/91	Q1378	CA05	LT 0.000865	LT 0.002450	LT 0.012300	0.244000	LT 0.024500	0.023600
06/11/91	Q1392	CFC1	LT 0.000865	LT 0.002450	LT 0.012300	0.156000	LT 0.024500	0.022800
06/11/91	Q1394	CFC2	LT 0.000865	LT 0.002450	LT 0.012300	0.174000	LT 0.024500	0.028900
06/11/91	Q1395	CFC5	LT 0.000865	LT 0.002450	LT 0.012300	0.084600	LT 0.024500	0.021400
06/11/91	Q1398	CQ11	LT 0.000865	LT 0.002450	LT 0.012300	0.086600	LT 0.024500	0.028000
06/11/91	Q1400	CQ12	LT 0.000865	LT 0.002450	LT 0.012300	0.068500	LT 0.024500	0.022200
06/17/91	Q1407	CA03	LT 0.000865	LT 0.002450	LT 0.012300	0.078000	LT 0.024500	0.036500
06/17/91	Q1411	CA05	LT 0.000865	LT 0.002450	LT 0.012300	0.277000	LT 0.024500	0.055700
06/17/91	Q1410	CA05	LT 0.000865	LT 0.002450	LT 0.012300	0.091400	LT 0.024500	0.061500
06/17/91	Q1428	CFC1	LT 0.000865	LT 0.002450	0.016100	0.160000	LT 0.024500	0.038500
06/17/91	Q1430	CFC2	LT 0.000865	LT 0.002450	0.013900	0.159000	LT 0.024500	0.028000
06/17/91	Q1431	CFC3	LT 0.000865	LT 0.002450	LT 0.012300	0.191000	LT 0.024500	0.032100
06/17/91	Q1433	CFC5	LT 0.000865	LT 0.002450	LT 0.012300	0.086300	LT 0.024500	0.035200
06/17/91	Q1424	CQ11	LT 0.000865	LT 0.002450	LT 0.012300	0.099100	0.053600	0.038500
06/17/91	Q1426	CQ12	LT 0.000865	LT 0.002450	LT 0.012300	0.055600	LT 0.024500	0.032200
06/23/91	Q1438	CA03	LT 0.000865	LT 0.002450	LT 0.012300	0.087800	LT 0.024500	0.020500
06/23/91	Q1441	CA05	LT 0.000865	LT 0.002450	LT 0.012300	0.050300	LT 0.024500	0.020400
06/23/91	Q1455	CFC1	LT 0.000865	LT 0.002450	LT 0.012300	0.143000	LT 0.024500	0.039400
06/23/91	Q1457	CFC2	LT 0.000865	LT 0.002450	LT 0.012300	0.117000	LT 0.024500	0.021300
06/23/91	Q1458	CFC5	LT 0.000865	LT 0.002450	LT 0.012300	0.059800	LT 0.024500	0.027500
06/23/91	Q1459	CQ11	LT 0.000865	LT 0.002450	LT 0.012300	0.055000	LT 0.024500	0.014400
06/23/91	Q1461	CQ12	LT 0.000865	LT 0.002450	LT 0.012300	0.039300	LT 0.024500	0.015600
06/29/91	Q1467	CA03	0.001220	LT 0.002450	LT 0.012300	0.084300	LT 0.024500	0.033200
06/29/91	Q1470	CA05	0.001170	LT 0.002450	LT 0.012300	0.084000	LT 0.024500	0.047200
06/29/91	Q1484	CFC1	0.001100	LT 0.002450	LT 0.012300	0.129000	LT 0.024500	0.037000
06/29/91	Q1486	CFC2	0.001030	LT 0.002450	LT 0.012300	0.120000	LT 0.024500	0.033400

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FIELD		SITE ID	ARSENIC RESULTS	CADMIUM RESULTS	CHROMIUM RESULTS	COPPER RESULTS	LEAD RESULTS	ZINC RESULTS
SAMPLE DATE	SAMPLE NUMBER							
06/29/91	Q1487	CFC5	0.000981	LT	0.012300	0.078800	LT	0.035100
06/29/91	Q1488	CQ11	0.001110	LT	0.013700	0.113000	LT	0.038000
06/29/91	Q1490	CQ12	0.001280	LT	0.019100	0.059900	LT	0.029800
07/03/91	Q1492	CAQ1	LT	0.000865	0.023800	0.147000	LT	0.037100
07/03/91	Q1499	CAQ25006	LT	0.000865	0.012300	0.100000	LT	0.021300
07/03/91	Q1493	CAQ3	LT	0.000865	0.019700	0.064500	LT	0.029500
07/03/91	Q1494	CAQ4	LT	0.000865	0.012300	0.095300	LT	0.022500
07/03/91	Q1495	CAQ5	LT	0.000865	0.012300	0.069400	LT	0.028000
07/03/91	Q1500	CFC2	LT	0.000865	0.054900	0.082700	LT	0.020500
07/03/91	Q1497	CQ11	LT	0.000865	0.012300	0.096900	LT	0.023300
07/03/91	Q1498	CQ12	LT	0.000865	0.012300	0.062600	LT	0.021000
07/05/91	Q0000611	CAQ3	LT	0.000865	0.012300	0.069700	LT	0.026100
07/05/91	Q0000614	CAQ5	LT	0.000865	0.012300	0.072700	LT	0.036400
07/05/91	Q0000628	CQ11	LT	0.000865	0.012300	0.135000	LT	0.026400
07/05/91	Q0000630	CQ12	LT	0.000865	0.012300	0.055200	LT	0.024200
07/11/91	Q0000632	CAQ1	LT	0.000865	0.012300	0.139000	LT	0.037000
07/11/91	Q0000636	CAQ3	LT	0.000865	0.012300	0.069800	LT	0.025000
07/11/91	Q0000663	CAQ35014	LT	0.000865	0.012300	0.136000	LT	0.049800
07/11/91	Q0000664	CAQ36019	LT	0.000865	0.012300	0.072500	LT	0.066800
07/11/91	Q0000665	CAQ36020	LT	0.000865	0.012300	0.090100	LT	0.049800
07/11/91	Q0000638	CAQ4	LT	0.000865	0.012300	0.094600	LT	0.024800
07/11/91	Q0000639	CAQ5	LT	0.000865	0.012300	0.080300	LT	0.070400
07/11/91	Q0000645	CAQ8	0.001540	LT	0.012300	0.111000	LT	0.023900
07/11/91	Q0000646	CAQ9	LT	0.000865	0.012300	0.039200	LT	0.022200
07/11/91	Q0000652	CFC1	LT	0.000865	0.012300	0.114000	LT	0.031300
07/11/91	Q0000654	CFC2	LT	0.000865	0.012300	0.114000	LT	0.024800
07/11/91	Q0000655	CFC3	LT	0.000865	0.012300	0.098700	LT	0.026000
07/11/91	Q0000666	CFC4	LT	0.000865	0.012300	0.086900	LT	0.032800
07/11/91	Q0000658	CQ11	LT	0.000865	0.012300	0.080900	LT	0.024100
07/11/91	Q0000660	CQ12	LT	0.000865	0.012300	0.053900	LT	0.023300
07/17/91	Q0000667	CAQ1	LT	0.000865	0.012300	0.142000	LT	0.040900

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## SUMMARY OF ARSENIC AND METALS CONCENTRATIONS

ALL UNITS ARE IN UG/M3

FIELD SAMPLE DATE	SAMPLE NUMBER	SITE ID	ARSENIC RESULTS	CADMIUM RESULTS	CHROMIUM RESULTS	COPPER RESULTS	LEAD RESULTS	ZINC RESULTS
07/17/91	Q0000683	CA010	0.000955	LT	0.012300	0.120000	LT	0.019600
07/17/91	Q0000671	CA03	LT	0.002450	LT	0.085900	LT	0.028200
07/17/91	Q0000673	CA04	LT	0.002450	LT	0.113000	LT	0.023900
07/17/91	Q0000674	CA05	LT	0.002450	LT	0.079900	LT	0.030500
07/17/91	Q0000680	CA08	0.002610	LT	0.012300	0.113000	LT	0.021500
07/17/91	Q0000691	CQ11	LT	0.002450	LT	0.093300	LT	0.048600
07/17/91	Q0000693	CQ12	LT	0.002450	LT	0.072600	LT	0.045600
07/18/91	Q0000689	CA002014	LT	0.002450	LT	0.163000	LT	0.033200
07/23/91	Q2003	CA03	LT	0.002450	LT	0.098400	LT	0.012300
07/23/91	Q2006	CA05	LT	0.002450	LT	0.113000	LT	0.012300
07/23/91	Q2023	CFC1	LT	0.002450	LT	0.089800	LT	0.034700
07/23/91	Q2025	CFC2	LT	0.002450	LT	0.082300	LT	0.012300
07/23/91	Q0000690	CFC5	LT	0.002450	LT	0.045400	LT	0.014000
07/23/91	Q2019	CQ11	LT	0.002450	LT	0.080200	LT	0.012300
07/23/91	Q2021	CQ12	LT	0.002450	LT	0.082500	LT	0.012300
07/29/91	Q1511	CA03	LT	0.002450	LT	0.135000	LT	0.032300
07/29/91	Q1514	CA05	LT	0.002450	LT	0.089100	LT	0.038300
07/29/91	Q1527	CQ11	LT	0.002450	LT	0.152000	LT	0.038500
07/29/91	Q1529	CQ12	LT	0.002450	LT	0.085800	LT	0.081000
08/04/91	Q1537	CA03	LT	0.002450	LT	0.100000	LT	0.014300
08/04/91	Q1540	CA05	LT	0.002450	LT	0.083600	LT	0.012300
08/04/91	Q1558	CFC1	LT	0.002450	LT	0.121000	LT	0.016700
08/04/91	Q1560	CFC2	LT	0.002450	LT	0.162000	LT	0.012300
08/04/91	Q1561	CFC5	LT	0.002450	LT	0.078900	LT	0.015700
08/04/91	Q1553	CQ11	LT	0.002450	LT	0.140000	LT	0.012300
08/04/91	Q1556	CQ12	LT	0.002450	LT	0.072600	LT	0.012300
08/10/91	Q1567	CA03	LT	0.002450	LT	0.096800	LT	0.021600
08/10/91	Q1570	CA05	LT	0.002450	LT	0.095300	LT	0.028300
08/10/91	Q1583	CQ11	LT	0.002450	LT	0.138000	LT	0.031800
08/10/91	Q1585	CQ12	LT	0.002450	LT	0.051200	LT	0.025100
08/16/91	Q1592	CA03	LT	0.002450	LT	0.084000	LT	0.022600

## WOODWARD-CLYDE CONSULTANTS

## ROCKY MOUNTAIN ARSENAL PROGRAM

## SUMMARY OF ARSENIC AND METALS CONCENTRATIONS

ALL UNITS ARE IN UG/M3

FIELD		SITE ID	ARSENIC RESULTS	CADMIUM RESULTS	CHROMIUM RESULTS	COPPER RESULTS	LEAD RESULTS	ZINC RESULTS
SAMPLE DATE	SAMPLE NUMBER							
08/16/91	Q1595	CA05	LT	0.000865	LT	0.002450	LT	0.024500
08/16/91	Q2058	CFC1	LT	0.000865	LT	0.002450	LT	0.024500
08/16/91	Q2060	CFC2	LT	0.000865	LT	0.002450	LT	0.024500
08/16/91	Q2061	CFC3	LT	0.000865	LT	0.002450	LT	0.024500
08/16/91	Q2063	CFC5	LT	0.000865	LT	0.002450	LT	0.024500
08/16/91	Q2054	CQ11	LT	0.000865	LT	0.002450	LT	0.024500
08/16/91	Q2056	CQ12	LT	0.000865	LT	0.002450	LT	0.024500
08/23/91	Q2069	CA03	LT	0.000865	LT	0.002450	LT	0.024500
08/23/91	Q2072	CA05	LT	0.000865	LT	0.002450	LT	0.024500
08/23/91	Q2085	CQ11	LT	0.000865	LT	0.002450	LT	0.024500
08/23/91	Q2087	CQ12	LT	0.000865	LT	0.002450	LT	0.024500
08/29/91	Q2094	CA03	LT	0.000865	LT	0.002450	LT	0.024500
08/29/91	Q2097	CA05	LT	0.000865	LT	0.002450	LT	0.024500
08/29/91	Q2114	CFC1	LT	0.000865	LT	0.002450	LT	0.024500
08/29/91	Q2117	CFC5	LT	0.000865	LT	0.002450	LT	0.024500
08/29/91	Q2110	CQ11	LT	0.000865	LT	0.002450	LT	0.024500
09/04/91	Q2123	CA03	LT	0.000865	LT	0.002450	LT	0.024500
09/04/91	Q0200	CA05	LT	0.000865	LT	0.002450	LT	0.024500
09/04/91	Q0215	CQ11	LT	0.000865	LT	0.002450	LT	0.024500
09/09/91	Q0223	CA03	LT	0.000865	LT	0.002450	LT	0.024500
09/09/91	Q0226	CA05	LT	0.000865	LT	0.002450	LT	0.024500
09/09/91	Q0240	CFC1	LT	0.000865	LT	0.002450	LT	0.024500
09/09/91	Q0243	CFC5	LT	0.000865	LT	0.002450	LT	0.024500
09/09/91	Q0238	CQ11	LT	0.000865	LT	0.002450	LT	0.024500
09/09/91	Q0213	CQ12	LT	0.000865	LT	0.002450	LT	0.024500
09/16/91	Q0248	CA03	LT	0.000865	LT	0.002450	LT	0.024500
09/16/91	Q0251	CA05	LT	0.000865	LT	0.002450	LT	0.024500
09/16/91	Q0265	CQ11	LT	0.000865	LT	0.002450	LT	0.024500
09/16/91	Q0267	CQ12	LT	0.000865	LT	0.002450	LT	0.024500
09/22/91	Q0273	CA03	LT	0.000865	LT	0.002450	LT	0.024500
09/22/91	Q0276	CA05	LT	0.000865	LT	0.002450	LT	0.024500

WOODWARD-CLYDE CONSULTANTS

ROCKY MOUNTAIN ARSENAL PROGRAM

## SUMMARY OF ARSENIC AND METALS CONCENTRATIONS

ALL UNITS ARE IN UG/M3

FIELD		SITE ID	ARSENIC		CADMIUM		CHROMIUM		COPPER		LEAD		ZINC	
SAMPLE DATE	SAMPLE NUMBER		RESULTS	LT	RESULTS	LT	RESULTS	LT	RESULTS	LT	RESULTS	LT	RESULTS	LT
09/22/91	Q0289	CFC1	LT	0.000865	LT	0.002450	LT	0.012300	0.011000	LT	0.024500	LT	0.012300	
09/22/91	Q0291	CFC2	LT	0.000865	LT	0.002450	LT	0.012300	0.115000	LT	0.024500	LT	0.022000	
09/22/91	Q0292	CFC3	LT	0.000865	LT	0.002450	LT	0.012300	0.091800	LT	0.024500	LT	0.028500	
09/22/91	Q0293	CFC4	LT	0.000865	LT	0.002450	LT	0.012300	0.119000	LT	0.024500	LT	0.022100	
09/22/91	Q0294	CFC5	LT	0.000865	LT	0.002450	LT	0.012300	0.137000	LT	0.024500	LT	0.021500	
09/22/91	Q0295	CQ11	LT	0.000865	LT	0.002450	LT	0.012300	0.177000	LT	0.024500	LT	0.018800	
09/28/91	Q0304	CAQ3A		0.001990	LT	0.002450	LT	0.012300	0.198000	LT	0.024500	LT	0.038300	
09/28/91	Q0307	CAQ5A	LT	0.000865	LT	0.002450	LT	0.012300	0.119000	LT	0.024500	LT	0.045100	

05/02/92

ROCKY MOUNTAIN ARSENAL PROGRAM

WOODWARD-CLYDE CONSULTANTS

ALL UNITS ARE IN UG/M3

SUMMARY OF MERCURY

SAMPLE DATE	FIELD SAMPLE NUMBER	SITE ID	MERCURY RESULTS
03/20/91	1-HG	CAQ1	LT 0.2310
03/20/91	2-HG	CAQ3	LT 0.2310
03/20/91	3-HG	CAQ4	LT 0.2310
03/20/91	4-HG	CAQ5	LT 0.2310
03/20/91	5-HG	CFC2	LT 0.2310
03/20/91	6-HG	CFC2	LT 0.2310
03/20/91	7-HG	CFC3	LT 0.2310
03/20/91	8-HG	CFC4	LT 0.2310
03/20/91	9-HG	CFC5	LT 0.2310
03/26/91	11-HG	CAQ1	LT 0.2310
03/26/91	12-HG	CAQ3	LT 0.2310
03/26/91	13-HG	CAQ4	LT 0.2310
03/26/91	14-HG	CAQ5	LT 0.2310
03/26/91	15-HG	CFC2	LT 0.2310
03/26/91	16-HG	CFC2	LT 0.2310
03/26/91	17-HG	CFC3	LT 0.2310
03/26/91	18-HG	CFC4	LT 0.2310
03/26/91	19-HG	CFC5	LT 0.2310
05/15/91	21-HG	CAQ1	LT 0.2310
05/15/91	22-HG	CAQ3	LT 0.2310
05/15/91	23-HG	CAQ4	LT 0.2310
05/15/91	24-HG	CAQ5	LT 0.2310
05/15/91	25-HG	CQ11	LT 0.2310
05/15/91	26-HG	CQ11C	LT 0.2310
05/15/91	27-HG	CQ12	LT 0.2310
05/15/91	28-HG	CAQ25001	LT 0.2310
05/15/91	29-HG	CAQ26011	LT 0.2310
07/3/91	31-HG	CAQ1	LT 0.2310
07/3/91	32-HG	CAQ3	LT 0.2310
07/3/91	33-HG	CAQ4	LT 0.2310
07/3/91	34-HG	CAQ5	LT 0.2310
07/3/91	35-HG	CAQ5C	LT 0.2310
07/3/91	36-HG	CQ11	LT 0.2310
07/3/91	37-HG	CQ12	LT 0.2310
07/3/91	38-HG	CAQ25004	LT 0.2310
07/11/91	40-HG	CAQ1	LT 0.2310
07/11/91	41-HG	CAQ3	LT 0.2310
07/11/91	42-HG	CAQ4	LT 0.2310
07/11/91	43-HG	CAQ5	LT 0.2310
07/11/91	44-HG	CAQ8	LT 0.2310
07/11/91	45-HG	CAQ9	LT 0.2310
07/11/91	46-HG	CAQ36017	LT 0.2310
07/11/91	47-HG	CAQ36018	LT 0.2310
07/11/91	48-HG	CAQ35012	LT 0.2310
07/18/91	50-HG	CAQ1	LT 0.2310
07/18/91	51-HG	CAQ3	LT 0.2310
07/18/91	52-HG	CAQ4	LT 0.2310
07/18/91	53-HG	CAQ5	LT 0.2310
07/18/91	54-HG	CAQ8	LT 0.2310
07/18/91	55-HG	CAQ10	LT 0.2310



07/18/91	56-HG	CAQ01078	LT	0.2310
07/18/91	57-HG	CAQ01079	LT	0.2310
07/18/91	58-HG	CAQ02013	LT	0.2310

C2 IRA-F LISTING

## SUMMARY OF ARSENIC AND METALS

ALL UNITS ARE IN UG/M3

SAMPLE DATE	FIELD SAMPLE NUMBER	SITE ID	ARSENIC RESULTS	CADMIUM RESULTS	CHROMIUM RESULTS	COPPER RESULTS	LEAD RESULTS	ZINC RESULTS
10/20/90	27142	FC1	LT 0.0004	LT 0.0004	LT 0.0051	0.0970	0.0062	0.0150
10/20/90	27143	FC2	LT 0.0004	LT 0.0004	LT 0.0051	0.1200	0.0072	0.0160
10/20/90	27144	FC2	LT 0.0004	LT 0.0004	LT 0.0051	0.0310	0.0080	0.0140
10/20/90	27145	FC3	LT 0.0004	LT 0.0004	LT 0.0051	0.0510	0.0071	0.0150
10/20/90	27146	FC4	LT 0.0004	LT 0.0004	LT 0.0051	0.0380	0.0053	0.0140
10/20/90	27151	FC5	LT 0.0004	LT 0.0004	LT 0.0051	0.0660	0.0063	0.0170
11/1/90	27153	FC1	0.0015	LT 0.0004	LT 0.0051	0.1700	0.0230	0.0430
11/1/90	27154	FC2	0.0015	0.0004	LT 0.0051	0.1600	0.0220	0.0450
11/1/90	27155	FC2	0.0016	0.0004	LT 0.0051	0.1000	0.0250	0.0470
11/1/90	27156	FC3	0.0016	0.0004	LT 0.0051	0.1300	0.0250	0.0480
11/1/90	27157	FC4	0.0016	0.0005	LT 0.0051	0.1200	0.0260	0.0490
11/1/90	27158	FC5	0.0017	LT 0.0004	LT 0.0051	0.1200	0.0250	0.0480
11/13/90	26022	FC3	LT 0.0004	LT 0.0004	LT 0.0051	0.1600	0.0220	0.0420
11/13/90	26023	FC4	LT 0.0004	LT 0.0004	LT 0.0051	0.0910	0.0240	0.0420
11/13/90	26024	FC5	LT 0.0004	LT 0.0004	LT 0.0051	0.0810	0.0220	0.0410
11/13/90	27161	FC1	LT 0.0004	LT 0.0004	LT 0.0051	0.1300	0.0210	0.0470
11/13/90	27162	FC2	LT 0.0004	LT 0.0004	LT 0.0051	0.1100	0.0210	0.0380
11/13/90	27163	FC2	LT 0.0004	0.0007	LT 0.0051	0.0720	0.0310	0.0390
11/25/90	26026	FC1	LT 0.0004	LT 0.0004	LT 0.0051	0.2300	0.0071	0.0170
11/25/90	26027	FC2	LT 0.0004	LT 0.0004	LT 0.0051	0.1400	0.0093	0.0170
11/25/90	26028	FC2	LT 0.0004	LT 0.0004	LT 0.0051	0.0810	0.0081	0.0160
11/25/90	26029	FC3	LT 0.0004	LT 0.0004	LT 0.0051	0.1500	0.0086	0.0180
11/25/90	26030	FC4	LT 0.0004	LT 0.0004	LT 0.0051	0.0930	0.0093	0.0170
11/25/90	26031	FC5	LT 0.0004	LT 0.0004	LT 0.0051	0.0980	0.0093	0.0170
12/7/90	26033	FC1	LT 0.0003	LT 0.0003	LT 0.0042	0.0996	0.0335	0.0490
12/7/90	26034	FC2	LT 0.0004	LT 0.0004	LT 0.0051	0.1000	0.0310	0.0490
12/7/90	26035	FC2	LT 0.0004	LT 0.0004	LT 0.0051	0.0700	0.0300	0.0470
12/7/90	26036	FC3	LT 0.0004	LT 0.0004	LT 0.0051	0.1400	0.0310	0.0460
12/7/90	26037	FC4	LT 0.0004	0.0005	LT 0.0051	0.0970	0.0340	0.0500
12/7/90	26038	FC5	LT 0.0004	LT 0.0004	LT 0.0051	0.1100	0.0300	0.0460
12/19/90	26040	FC1	LT 0.0004	LT 0.0004	LT 0.0051	0.0210	LT 0.0050	0.0130
12/19/90	26041	FC2	LT 0.0004	LT 0.0004	LT 0.0051	0.0200	LT 0.0050	0.0110
12/19/90	26042	FC2	LT 0.0004	LT 0.0004	LT 0.0051	0.0099	LT 0.0050	0.0890
12/19/90	26043	FC3	LT 0.0004	LT 0.0004	LT 0.0051	0.0270	LT 0.0050	0.0088
12/19/90	26044	FC4	LT 0.0004	LT 0.0004	LT 0.0051	0.0200	LT 0.0050	0.0130
12/19/90	26045	FC5	LT 0.0004	LT 0.0004	LT 0.0051	0.0190	LT 0.0050	0.0110
12/31/90	26004	FC4	LT 0.0004	LT 0.0004	LT 0.0051	0.0600	0.0093	0.0180
12/31/90	26005	FC5	LT 0.0004	LT 0.0004	LT 0.0051	0.0670	0.0092	0.0190
12/31/90	26047	FC1	LT 0.0004	LT 0.0004	LT 0.0051	0.0920	0.0082	0.0180
12/31/90	26048	FC2	LT 0.0004	LT 0.0004	LT 0.0051	0.0840	0.0093	0.0180
12/31/90	26049	FC2	LT 0.0004	LT 0.0004	LT 0.0051	0.0540	0.0095	0.0190
12/31/90	26050	FC3	LT 0.0004	LT 0.0004	LT 0.0051	0.0670	0.0097	0.0170
01/12/91	26008	FC1	LT 0.0004	LT 0.0004	LT 0.0051	0.0960	0.0066	0.0220
01/12/91	26009	FC2	LT 0.0004	0.0006	LT 0.0051	0.0820	0.0052	0.0190
01/12/91	26010	FC2	LT 0.0004	LT 0.0004	LT 0.0051	0.0510	0.0061	0.0190
01/12/91	26011	FC3	LT 0.0004	LT 0.0004	LT 0.0051	0.0300	0.0110	0.0210
01/12/91	26012	FC4	LT 0.0004	LT 0.0004	LT 0.0051	0.0490	LT 0.0050	0.0190
01/12/91	26013	FC5	LT 0.0004	LT 0.0004	LT 0.0051	0.0610	0.0075	0.0920

ALL UNITS ARE IN UG/M3

## SUMMARY OF MERCURY

SAMPLE DATE	FIELD SAMPLE NUMBER	SITE ID	MERCURY RESULTS
10/20/90	24432	FC1	LT 0.6200
10/20/90	24435	FC2	LT 0.6200
10/20/90	24438	FC2	LT 0.6200
10/20/90	24441	FC3	LT 0.6200
10/20/90	24444	FC4	LT 0.6200
10/20/90	24447	FC5	LT 0.6200
11/1/90	24465	FC1	LT 0.6200
11/1/90	24468	FC2	LT 0.6200
11/1/90	24471	FC2	LT 0.6200
11/1/90	24474	FC3	0.9200
11/1/90	24477	FC4	LT 0.6200
11/1/90	24480	FC5	LT 0.6200
11/25/90	27785	FC1	1.1000
11/25/90	27788	FC2	1.3000
11/25/90	27791	FC2	LT 0.6200
11/25/90	27794	FC3	LT 0.6200
11/25/90	27797	FC4	LT 0.6200
11/25/90	27800	FC5	LT 0.6200
12/7/90	27818	FC1	LT 0.6200
12/7/90	27821	FC2	1.1000
12/7/90	27824	FC2	0.9700
12/7/90	27827	FC3	LT 0.6200
12/7/90	27830	FC4	0.9300
12/7/90	27833	FC5	0.9800
12/19/90	27851	FC1	LT 0.6200
12/19/90	27854	FC2	1.5000
12/19/90	27857	FC2	1.2000
12/19/90	27860	FC3	LT 0.6200
12/19/90	27863	FC4	LT 0.6200
12/19/90	27866	FC5	2.4000
12/31/90	27884	FC1	LT 0.6200
12/31/90	27887	FC2	1.4000
12/31/90	27890	FC2	LT 0.6200
12/31/90	27893	FC3	2.2000
12/31/90	27896	FC4	1.0000
12/31/90	27899	FC5	0.9900
01/12/91	27917	FC1	LT 0.6200
01/12/91	27920	FC2	LT 0.6200
01/12/91	27923	FC2	LT 0.6200
01/12/91	27926	FC3	LT 0.6200
01/12/91	27929	FC4	LT 0.6200
01/12/91	27932	FC5	1.0000

APPENDIX D

ASBESTOS DATA

D1 Listing

D1 LISTING

WOODWARD-CLYDE CONSULTANTS  
ROCKY MOUNTAIN ARSENAL PROGRAM

CMP ASBESTOS DATA FOR FY91  
(in fibers/ml)

MO	DAY	YR	SITE NO.	TAG NO.	DAYTIME			AVG			STP FACTOR	VOL* (L3)	LAB REPORTED FIBERS/ML
					TEMP	PRESS	AVG	ETI MIN	FLOW IND	FLOW (SLPM)			
3	25	91	AQ1	AB407	55.6	24.27	1428	7.5	7.0	0.8448	11832	<0.0002	
3	25	91	AQ6	AB408	55.6	24.27	1433	7.5	7.0	0.8448	11874	<0.0002	
3	25	91	AQ8	AB409	55.6	24.27	1434	7.5	7.0	0.8448	11882	<0.0002	
3	25	91	AQ12	AB410	55.6	24.27	1430	7.4	7.0	0.8448	11849	<0.0002	
3	25	91	AQ1C	AB411	55.6	24.27	1428	7.0	7.0	0.8448	11832	<0.0002	
6	28	91	AQ1	AB414	77.3	24.68	1444	8.0	7.0	0.8244	12261	*	
6	28	91	AQ6	AB415	77.3	24.68	1478	8.0	7.0	0.8244	12550	0.0005	
6	28	91	AQ8	AB416	77.3	24.68	1432	8.1	7.0	0.8244	12159	0.0004	
6	28	91	AQ12	AB417	77.3	24.68	1463	7.8	7.0	0.8244	12422	<0.0002	
6	28	91	AQ1C	AB418	77.3	24.68	1436	8.0	7.0	0.8244	12193	*	

\* Filter was overloaded with particulates and was not analyzed.

## APPENDIX E

### VOLATILE ORGANIC COMPOUNDS (VOC) DATA

- E1 Listing
- E2 Vent and Cap Real-Time Monitoring



E1 LISTING

## WOODWARD-CLYDE CONSULTANTS

## ROCKY MOUNTAIN ARSENAL PROGRAM

## SUMMARY OF VOLATILE ORGANIC COMPOUND CONCENTRATIONS

ALL UNITS ARE IN UG/M3

FIELD		SITE ID	111TCE	112TCE	11DCLE	12DCE	12DCLE	BCHPD	C6H6	CCL4	CH2CL2	CHCL3
SAMPLE DATE	SAMPLE NUMBER		RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS
01/24/91	1A	CA02	2.470000	LT 0.125000	LT 0.041700	LT 0.041700	LT 0.041700	LT 0.041700	GT 3.470000	1.790000	0.000000	GT 3.470000
01/24/91	2A	CA03	1.800000	LT 0.125000	LT 0.041700	LT 0.041700	LT 0.041700	LT 0.041700	2.430000	0.661000	0.000000	0.281000
01/24/91	3A	CA05	1.280000	LT 0.125000	LT 0.041700	LT 0.041700	LT 0.041700	LT 0.041700	GT 3.470000	0.188000	0.000000	0.263000
01/24/91	3B	CA05	0.491000	LT 0.125000	LT 0.041700	LT 0.041700	LT 0.041700	LT 0.041700	LT 0.055600	LT 0.062500	0.000000	LT 0.041700
01/24/91	4A	CFC1	1.680000	LT 0.125000	LT 0.041700	LT 0.041700	LT 0.041700	LT 0.041700	1.670000	0.519000	0.000000	0.426000
01/24/91	6A	CFC3	2.610000	LT 0.125000	LT 0.041700	LT 0.041700	LT 0.041700	LT 0.041700	2.560000	0.694000	0.000000	0.538000
01/24/91	7A	CFC4	2.110000	LT 0.125000	LT 0.041700	LT 0.041700	LT 0.041700	LT 0.041700	2.470000	0.617000	0.000000	0.366000
01/24/91	8A	CFC5	1.880000	LT 0.125000	LT 0.041700	LT 0.041700	LT 0.041700	LT 0.041700	2.620000	0.576000	0.000000	0.686000
01/30/91	10A	CA02	3.000000	LT 0.125000	LT 0.041700	LT 0.041700	LT 0.041700	LT 0.041700	2.980000	0.724000	0.000000	0.273000
01/30/91	11A	CA03	1.440000	LT 0.125000	LT 0.041700	LT 0.041700	LT 0.041700	LT 0.041700	2.750000	0.688000	0.000000	0.276000
01/30/91	12A	CA05	GT 3.470000	LT 0.125000	LT 0.041700	LT 0.041700	LT 0.041700	LT 0.041700	GT 3.470000	0.599000	0.000000	0.125000
01/30/91	12B	CA05	0.774000	LT 0.125000	LT 0.041700	LT 0.041700	LT 0.041700	LT 0.041700	LT 0.055600	0.058200	0.000000	0.167000
01/30/91	13A	CFC1	2.550000	LT 0.125000	LT 0.041700	LT 0.041700	LT 0.041700	LT 0.041700	2.680000	0.644000	0.000000	0.858000
01/30/91	14A	CFC1C	1.960000	LT 0.125000	LT 0.041700	LT 0.041700	LT 0.041700	LT 0.041700	1.540000	0.484000	0.000000	0.547000
01/30/91	15A	CFC3	3.360000	LT 0.125000	LT 0.041700	LT 0.041700	LT 0.041700	LT 0.041700	2.780000	0.849000	0.000000	0.742000
01/30/91	16A	CFC4	2.690000	LT 0.125000	LT 0.041700	LT 0.041700	LT 0.041700	LT 0.041700	2.280000	0.699000	0.000000	0.381000
01/30/91	17A	CFC5	2.640000	LT 0.125000	LT 0.041700	LT 0.041700	LT 0.041700	LT 0.041700	2.650000	0.675000	0.000000	1.060000
02/05/91	19B	CA02	0.471000	LT 0.125000	LT 0.041700	LT 0.041700	LT 0.041700	LT 0.041700	LT 0.055600	0.069800	0.000000	LT 0.041700
02/05/91	19A	CA02	0.354000	LT 0.125000	LT 0.041700	LT 0.041700	LT 0.041700	LT 0.041700	2.620000	0.704000	0.000000	0.283000
02/05/91	20A	CA03	1.020000	LT 0.125000	LT 0.041700	LT 0.041700	LT 0.041700	LT 0.041700	0.786000	0.323000	0.000000	0.062100
02/05/91	22A	CFC1	2.760000	LT 0.125000	LT 0.041700	LT 0.041700	LT 0.041700	LT 0.041700	1.690000	0.600000	0.000000	0.240000
02/05/91	23A	CFC1C	3.250000	LT 0.125000	LT 0.041700	LT 0.041700	LT 0.041700	LT 0.041700	1.920000	0.691000	0.000000	0.273000
02/05/91	24A	CFC3	3.060000	LT 0.125000	LT 0.041700	LT 0.041700	LT 0.041700	LT 0.041700	1.800000	0.653000	0.000000	0.198000
02/05/91	25A	CFC4	2.150000	LT 0.125000	LT 0.041700	LT 0.041700	LT 0.041700	LT 0.041700	0.976000	0.443000	0.000000	0.171000
02/05/91	26A	CFC5	2.490000	LT 0.125000	LT 0.041700	LT 0.041700	LT 0.041700	LT 0.041700	1.960000	0.547000	0.000000	0.384000
02/11/91	28A	CA02	1.830000	LT 0.125000	LT 0.041700	LT 0.041700	LT 0.041700	LT 0.041700	1.720000	0.554000	0.000000	0.149000
02/11/91	29A	CA03	0.934000	LT 0.125000	LT 0.041700	LT 0.041700	LT 0.041700	LT 0.041700	1.660000	0.223000	0.000000	0.104000
02/11/91	30A	CA05	2.720000	LT 0.125000	LT 0.041700	LT 0.041700	LT 0.041700	LT 0.041700	1.100000	0.449000	0.000000	0.061300
02/11/91	31A	CFC1	1.740000	LT 0.125000	LT 0.041700	LT 0.041700	LT 0.041700	LT 0.041700	1.650000	0.470000	0.000000	0.171000
02/11/91	32B	CFC1C	0.516000	LT 0.125000	LT 0.041700	LT 0.041700	LT 0.041700	LT 0.041700	LT 0.055600	0.111000	0.000000	0.051200
02/11/91	32A	CFC1C	2.420000	LT 0.125000	LT 0.041700	LT 0.041700	LT 0.041700	LT 0.041700	2.880000	0.698000	0.000000	0.229000

## WOODWARD-CLYDE CONSULTANTS

## ROCKY MOUNTAIN ARSENAL PROGRAM

## SUMMARY OF VOLATILE ORGANIC COMPOUND CONCENTRATIONS

ALL UNITS ARE IN UG/M3

FIELD		SITE ID	111TCE		112TCE		11DCLE		12DCE		12DCLE		BCHPD		C6H6		CCL4		CH2CL2		CHCL3	
SAMPLE DATE	SAMPLE NUMBER		RESULTS		RESULTS		RESULTS		RESULTS		RESULTS		RESULTS		RESULTS		RESULTS		RESULTS		RESULTS	
02/11/91	33A	CFC3	2.320000		LT 0.125000		LT 0.041700		LT 0.041700		LT 0.041700		LT 0.041700		1.360000		0.547000		0.000000		0.168000	
02/17/91	37A	CAQ2	0.787000		LT 0.125000		LT 0.041700		LT 0.041700		LT 0.041700		LT 0.041700		1.040000		0.297000		0.000000		0.148000	
02/17/91	38A	CAQ3	0.852000		LT 0.125000		LT 0.041700		LT 0.041700		LT 0.041700		LT 0.041700		0.732000		0.458000		0.000000		0.144000	
02/17/91	39A	CAQ5	2.770000		LT 0.125000		LT 0.041700		LT 0.041700		LT 0.041700		LT 0.041700		2.010000		0.578000		0.000000		0.149000	
02/17/91	40A	CFC1	0.727000		LT 0.125000		LT 0.041700		LT 0.041700		LT 0.041700		LT 0.041700		0.577000		0.304000		0.000000		0.531000	
02/17/91	41A	CFC1C	1.230000		LT 0.125000		LT 0.041700		LT 0.041700		LT 0.041700		0.052700		1.760000		0.551000		0.000000		0.965000	
02/17/91	42A	CFC3	1.100000		LT 0.125000		LT 0.041700		LT 0.041700		LT 0.041700		LT 0.041700		1.770000		0.500000		0.000000		0.368000	
02/17/91	42B	CFC3	0.203000		LT 0.125000		LT 0.041700		LT 0.041700		LT 0.041700		LT 0.041700		0.055600		0.072900		0.000000		0.081300	
02/17/91	43A	CFC4	0.958000		LT 0.125000		LT 0.041700		LT 0.041700		LT 0.041700		LT 0.041700		1.310000		0.404000		0.000000		0.255000	
02/17/91	44A	CFC5	0.814000		LT 0.125000		LT 0.041700		LT 0.041700		LT 0.041700		LT 0.041700		1.050000		0.368000		0.000000		0.688000	
02/23/91	54A	CAQ2	1.870000		LT 0.125000		LT 0.041700		LT 0.041700		LT 0.041700		LT 0.041700		1.240000		0.566000		0.000000		0.143000	
02/23/91	45A	CAQ2	2.700000		LT 0.125000		LT 0.041700		LT 0.041700		LT 0.041700		LT 0.041700		3.470000		0.418000		0.000000		0.183000	
02/23/91	46A	CAQ3	2.640000		LT 0.125000		LT 0.041700		LT 0.041700		LT 0.041700		LT 0.041700		1.850000		0.897000		0.000000		0.193000	
02/23/91	55A	CAQ3	1.600000		LT 0.125000		LT 0.041700		LT 0.041700		LT 0.041700		LT 0.041700		1.320000		0.563000		0.000000		0.272000	
02/23/91	47B	CAQ5	0.841000		LT 0.125000		LT 0.041700		LT 0.041700		LT 0.041700		LT 0.041700		0.055600		0.062500		0.000000		0.041700	
02/23/91	47A	CAQ5	3.470000		LT 0.125000		LT 0.041700		LT 0.041700		LT 0.041700		LT 0.041700		2.060000		0.640000		0.000000		0.092400	
02/23/91	48A	CFC1	3.280000		LT 0.125000		LT 0.041700		LT 0.041700		LT 0.041700		0.045600		2.870000		0.821000		0.000000		0.804000	
02/23/91	49A	CFC1C	3.470000		LT 0.125000		LT 0.041700		LT 0.041700		LT 0.041700		LT 0.041700		2.950000		0.923000		0.000000		0.818000	
02/23/91	50A	CFC3	3.000000		LT 0.125000		LT 0.041700		LT 0.041700		LT 0.041700		LT 0.041700		2.730000		0.781000		0.000000		0.479000	
02/23/91	51A	CFC4	3.520000		LT 0.125000		LT 0.041700		LT 0.041700		LT 0.041700		LT 0.041700		2.790000		0.882000		0.000000		0.429000	
02/23/91	52A	CFC5	2.460000		LT 0.125000		LT 0.041700		LT 0.041700		LT 0.041700		LT 0.041700		1.660000		0.697000		0.000000		1.140000	
03/01/91	56A	CAQ5	2.740000		LT 0.125000		LT 0.041700		LT 0.041700		LT 0.041700		LT 0.041700		2.470000		0.713000		0.000000		0.264000	
03/01/91	57A	CFC1	2.070000		LT 0.125000		LT 0.041700		LT 0.041700		LT 0.041700		LT 0.041700		1.080000		0.674000		0.000000		0.309000	
03/01/91	58A	CFC2	2.200000		LT 0.125000		LT 0.041700		LT 0.041700		LT 0.041700		0.083000		2.290000		0.698000		0.000000		1.300000	
03/01/91	59A	CFC3	1.400000		LT 0.125000		LT 0.041700		LT 0.041700		LT 0.041700		LT 0.041700		1.270000		0.431000		0.000000		0.178000	
03/01/91	60A	CFC4	1.630000		LT 0.125000		LT 0.041700		LT 0.041700		LT 0.041700		LT 0.041700		2.210000		0.502000		0.000000		0.197000	
03/01/91	60B	CFC4	0.338000		LT 0.125000		LT 0.041700		LT 0.041700		LT 0.041700		LT 0.041700		0.055600		0.091600		0.000000		0.041700	
03/01/91	61A	CFC5	1.050000		LT 0.125000		LT 0.041700		LT 0.041700		LT 0.041700		LT 0.041700		1.900000		0.517000		0.000000		0.424000	
03/07/91	63A	CAQ2	0.924000		LT 0.125000		LT 0.041700		LT 0.041700		0.045500		LT 0.041700		0.826000		0.549000		0.000000		0.125000	
03/07/91	64A	CAQ3	0.458000		LT 0.125000		LT 0.041700		LT 0.041700		0.048600		LT 0.041700		0.604000		0.465000		0.000000		0.064600	
03/07/91	66A	CFC1	0.514000		LT 0.125000		LT 0.041700		LT 0.041700		LT 0.041700		LT 0.041700		0.375000		0.351000		0.000000		0.150000	

## WOODWARD-CLYDE CONSULTANTS

## ROCKY MOUNTAIN ARSENAL PROGRAM

## SUMMARY OF VOLATILE ORGANIC COMPOUND CONCENTRATIONS

ALL UNITS ARE IN UC/M3

FIELD		SITE ID		111TCE	112TCE	11DCE	12DCE	12DCE	12DCE	BOHPD	C6H6	CCL4	CH2CL2	CHCL3
SAMPLE DATE	SAMPLE NUMBER			RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS
03/07/91	66B	CFC1		LT 0.079900	LT 0.125000	LT 0.041700	LT 0.041700	LT 0.041700	LT 0.041700	LT 0.041700	0.188000	0.073300	0.000000	0.493000
03/07/91	67A	CFC1C		LT 0.079900	LT 0.125000	LT 0.041700	LT 0.041700	LT 0.041700	LT 0.041700	LT 0.041700	LT 0.055600	LT 0.062500	0.000000	LT 0.041700
03/07/91	68A	CFC2		LT 0.079900	LT 0.125000	LT 0.041700	LT 0.041700	LT 0.041700	LT 0.041700	LT 0.041700	LT 0.055600	LT 0.062500	0.000000	LT 0.041700
03/07/91	69A	CFC3		LT 0.079900	LT 0.125000	LT 0.041700	LT 0.041700	LT 0.041700	LT 0.041700	LT 0.041700	LT 0.055600	LT 0.062500	0.000000	LT 0.041700
03/07/91	71A	CFC5		0.563000	LT 0.125000	LT 0.041700	LT 0.041700	LT 0.041700	0.062200	LT 0.041700	0.628000	0.392000	0.000000	0.263000
03/13/91	73B	CAQ2		0.406000	LT 0.125000	LT 0.041700	LT 0.041700	LT 0.041700	LT 0.041700	LT 0.041700	0.106000	0.109000	0.000000	LT 0.041700
03/13/91	73A	CAQ2		1.340000	LT 0.125000	LT 0.041700	LT 0.041700	LT 0.041700	0.097900	LT 0.041700	1.610000	0.583000	0.000000	0.130000
03/13/91	74A	CAQ3		1.010000	LT 0.125000	LT 0.041700	LT 0.041700	LT 0.041700	0.084400	LT 0.041700	1.260000	0.573000	0.000000	0.120000
03/13/91	75A	CAQ5		0.503000	LT 0.125000	LT 0.041700	LT 0.041700	LT 0.041700	0.092000	LT 0.041700	1.580000	0.175000	0.000000	0.118000
03/13/91	76A	CFC1		0.528000	LT 0.125000	LT 0.041700	LT 0.041700	LT 0.041700	0.096900	LT 0.041700	1.390000	0.389000	0.000000	0.653000
03/13/91	77A	CFC1C		1.560000	LT 0.125000	LT 0.041700	LT 0.041700	LT 0.041700	0.092700	LT 0.041700	1.390000	0.491000	0.000000	0.613000
03/13/91	78A	CFC2		1.550000	LT 0.125000	LT 0.041700	LT 0.041700	LT 0.041700	0.100000	LT 0.041700	1.400000	0.476000	0.000000	1.170000
03/13/91	79A	CFC3		1.540000	LT 0.125000	LT 0.041700	LT 0.041700	LT 0.041700	0.088500	LT 0.041700	1.310000	0.503000	0.000000	0.177000
03/13/91	80A	CFC4	LT	0.079900	LT 0.125000	LT 0.041700	LT 0.041700	LT 0.041700	LT 0.041700	LT 0.041700	LT 0.055600	LT 0.062500	0.000000	LT 0.041700
03/13/91	81A	CFC5		1.420000	LT 0.125000	LT 0.041700	LT 0.041700	LT 0.041700	0.107000	LT 0.041700	1.540000	0.417000	0.000000	1.000000
03/19/91	83B	CAQ2		0.245000	LT 0.125000	LT 0.041700	LT 0.041700	LT 0.041700	LT 0.041700	LT 0.041700	LT 0.055600	0.079300	0.000000	LT 0.041700
03/19/91	83A	CAQ2		1.110000	LT 0.125000	LT 0.041700	LT 0.041700	LT 0.041700	LT 0.041700	LT 0.041700	1.290000	0.424000	0.000000	0.110000
03/19/91	84A	CAQ3		0.757000	LT 0.125000	LT 0.041700	LT 0.041700	LT 0.041700	0.062200	LT 0.041700	0.767000	0.382000	0.000000	0.099000
03/19/91	85B	CAQ5		0.407000	LT 0.125000	LT 0.041700	LT 0.041700	LT 0.041700	LT 0.041700	LT 0.041700	0.108000	0.080300	0.000000	LT 0.041700
03/19/91	85A	CAQ5		1.800000	LT 0.125000	LT 0.041700	LT 0.041700	LT 0.041700	0.072800	LT 0.041700	1.210000	0.421000	0.000000	0.109000
03/19/91	86A	CFC1		0.838000	LT 0.125000	LT 0.041700	LT 0.041700	LT 0.041700	LT 0.041700	LT 0.041700	0.863000	0.371000	0.000000	0.371000
03/19/91	87A	CFC1C		0.864000	LT 0.125000	LT 0.041700	LT 0.041700	LT 0.041700	0.125000	LT 0.041700	1.580000	0.460000	0.000000	0.376000
03/19/91	88A	CFC2		0.799000	LT 0.125000	LT 0.041700	LT 0.041700	LT 0.041700	0.117000	LT 0.041700	1.450000	0.384000	0.000000	0.450000
03/19/91	89A	CFC3		0.710000	LT 0.125000	LT 0.041700	LT 0.041700	LT 0.041700	LT 0.041700	LT 0.041700	1.090000	0.403000	0.000000	0.087900
03/19/91	90A	CFC4		0.133000	LT 0.125000	LT 0.041700	LT 0.041700	LT 0.041700	LT 0.041700	LT 0.041700	0.089300	0.072000	0.000000	LT 0.041700
03/19/91	91A	CFC5		0.765000	LT 0.125000	LT 0.041700	LT 0.041700	LT 0.041700	0.077500	LT 0.041700	1.070000	0.346000	0.000000	0.381000
03/25/91	93A	CAQ2		0.557000	LT 0.125000	LT 0.041700	LT 0.041700	LT 0.041700	LT 0.041700	LT 0.041700	1.190000	0.102000	0.000000	0.046700
03/25/91	93B	CAQ2		0.540000	LT 0.125000	LT 0.041700	LT 0.041700	LT 0.041700	0.081700	LT 0.041700	0.122000	0.153000	0.000000	0.059200
03/25/91	94A	CAQ3		0.564000	LT 0.125000	LT 0.041700	LT 0.041700	LT 0.041700	LT 0.041700	LT 0.041700	0.711000	0.249000	0.000000	0.102000
03/25/91	95A	CAQ5		0.806000	LT 0.125000	LT 0.041700	LT 0.041700	LT 0.041700	LT 0.041700	LT 0.041700	1.210000	0.245000	0.000000	0.066400
03/25/91	98A	CFC2		0.847000	LT 0.125000	LT 0.041700	LT 0.041700	LT 0.041700	LT 0.041700	LT 0.041700	1.030000	0.301000	0.000000	0.746000

## WOODWARD-CLYDE CONSULTANTS

## ROCKY MOUNTAIN ARSENAL PROGRAM

## SUMMARY OF VOLATILE ORGANIC COMPOUND CONCENTRATIONS

ALL UNITS ARE IN UC/M3

FIELD		SITE ID	111TCE		112TCE		11DCLE		12DCE		12DCLE		BOHPD		C6H6		CCL4		CH2CL2		CHCL3	
SAMPLE DATE	SAMPLE NUMBER		RESULTS		RESULTS		RESULTS		RESULTS		RESULTS		RESULTS		RESULTS		RESULTS		RESULTS		RESULTS	
03/25/91	99A	CFC3	1.130000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.882000	0.356000	0.000000	0.000000	0.000000	0.000000	0.360000	0.360000
03/25/91	101A	CFC5	1.070000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	1.090000	0.410000	0.000000	0.000000	0.000000	0.000000	0.771000	0.771000
03/31/91	103A	CAQ2	0.233000	LT	0.125000	LT	0.041700	LT	0.099700	LT	0.041700	LT	0.041700	LT	1.400000	0.239000	0.000000	0.000000	0.000000	0.000000	0.084100	0.084100
03/31/91	104A	CAQ3	0.547000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.893000	0.339000	0.000000	0.000000	0.000000	0.000000	0.057100	0.057100
03/31/91	105A	CAQ5	0.653000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	1.240000	0.382000	0.000000	0.000000	0.000000	0.000000	0.063500	0.063500
03/31/91	106A	CFC1	0.552000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	1.290000	0.347000	0.000000	0.000000	0.000000	0.000000	0.123000	0.123000
03/31/91	107A	CFC1C	0.190000	LT	0.125000	LT	0.041700	LT	0.365000	LT	0.041700	LT	0.041700	LT	2.120000	0.289000	0.000000	0.000000	0.000000	0.000000	0.142000	0.142000
03/31/91	108A	CFC2	0.743000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	1.380000	0.535000	0.000000	0.000000	0.000000	0.000000	0.573000	0.573000
03/31/91	109A	CFC5	0.639000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	1.420000	0.514000	0.000000	0.000000	0.000000	0.000000	0.230000	0.230000
03/31/91	110A	CQ11	0.150000	LT	0.125000	LT	0.041700	LT	0.047900	LT	0.041700	LT	0.041700	LT	1.130000	0.179000	0.000000	0.000000	0.000000	0.000000	LT	0.041700
03/31/91	110B	CQ11	1.190000	LT	0.125000	LT	0.041700	LT	0.304000	LT	0.041700	LT	0.041700	LT	1.720000	0.391000	0.000000	0.000000	0.000000	0.000000	0.183000	0.183000
03/31/91	111A	CQ12	0.792000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	1.910000	0.497000	0.000000	0.000000	0.000000	0.000000	0.058300	0.058300
03/31/91	111B	CQ12	0.625000	LT	0.125000	LT	0.041700	LT	1.150000	LT	0.041700	LT	0.041700	LT	1.520000	0.545000	0.000000	0.000000	0.000000	0.000000	0.375000	0.375000
04/06/91	113A	CAQ2	0.958000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	1.140000	0.330000	0.000000	0.000000	0.000000	0.000000	0.058400	0.058400
04/06/91	114A	CAQ3	0.790000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.808000	0.319000	0.000000	0.000000	0.000000	0.000000	0.048400	0.048400
04/06/91	115A	CAQ5	0.541000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	1.140000	0.225000	0.000000	0.000000	0.000000	0.000000	LT	0.041700
04/06/91	116A	CFC1	0.891000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.965000	0.339000	0.000000	0.000000	0.000000	0.000000	0.327000	0.327000
04/06/91	117A	CFC1C	1.360000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	1.620000	0.542000	0.000000	0.000000	0.000000	0.000000	0.243000	0.243000
04/06/91	118A	CFC2	0.714000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	1.050000	0.256000	0.000000	0.000000	0.000000	0.000000	0.312000	0.312000
04/06/91	119A	CFC5	0.912000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.842000	0.341000	0.000000	0.000000	0.000000	0.000000	0.316000	0.316000
04/06/91	120A	CQ11	0.601000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	1.100000	0.242000	0.000000	0.000000	0.000000	0.000000	LT	0.041700
04/06/91	120B	CQ11	2.300000	LT	0.125000	LT	0.041700	LT	0.144000	LT	0.041700	LT	0.041700	LT	1.790000	0.801000	0.000000	0.000000	0.000000	0.000000	0.562000	0.562000
04/06/91	121A	CQ12	0.824000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	1.420000	0.300000	0.000000	0.000000	0.000000	0.000000	0.041700	0.041700
04/06/91	121B	CQ12	0.802000	LT	0.125000	LT	0.041700	LT	0.957000	LT	0.041700	LT	0.041700	LT	0.478000	0.184000	0.000000	0.000000	0.000000	0.000000	0.201000	0.201000
04/12/91	123A	CAQ2	0.681000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.083500	LT	0.041700	LT	1.200000	0.484000	0.000000	0.000000	0.000000	0.000000	0.073300	0.073300
04/12/91	124A	CAQ3	0.189000	LT	0.125000	LT	0.041700	LT	0.202000	LT	0.073000	LT	0.041700	LT	0.923000	0.062500	0.000000	0.000000	0.000000	0.000000	0.086300	0.086300
04/12/91	125A	CAQ5	0.445000	LT	0.125000	LT	0.041700	LT	0.084500	LT	0.092900	LT	0.041700	LT	1.120000	0.382000	0.000000	0.000000	0.000000	0.000000	0.090500	0.090500
04/12/91	126A	CFC1	0.649000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.076000	LT	0.041700	LT	0.944000	0.476000	0.000000	0.000000	0.000000	0.000000	0.072600	0.072600
04/12/91	127A	CFC1C	1.030000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.154000	LT	0.041700	LT	1.830000	0.733000	0.000000	0.000000	0.000000	0.000000	0.114000	0.114000
04/12/91	128A	CFC2	0.538000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.084300	LT	0.041700	LT	0.916000	0.409000	0.000000	0.000000	0.000000	0.000000	0.241000	0.241000
04/12/91	129A	CFC5	0.654000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.081800	LT	0.041700	LT	0.941000	0.458000	0.000000	0.000000	0.000000	0.000000	0.070600	0.070600

## WOODWARD-CLYDE CONSULTANTS

## ROCKY MOUNTAIN ARSENAL PROGRAM

## SUMMARY OF VOLATILE ORGANIC COMPOUND CONCENTRATIONS

ALL UNITS ARE IN UC/M3

FIELD		SITE ID	111TCE		112TCE		11DCLE		12DCE		12DCLE		BOHPD		C6H6		CCL4		CH2CL2		CHCL3	
SAMPLE DATE	SAMPLE NUMBER		RESULTS		RESULTS		RESULTS		RESULTS		RESULTS		RESULTS		RESULTS		RESULTS		RESULTS		RESULTS	
04/12/91	130A	C011	0.793000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.184000	LT	0.041700	LT	2.140000	LT	0.631000	0.000000	0.000000	0.000000	0.231000	0.000000
04/12/91	130B	C011	0.647000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.055600	LT	0.363000	0.610000	0.100000	0.110000	0.110000	0.110000
04/12/91	131A	C012	0.993000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.199000	LT	0.041700	LT	2.550000	LT	0.725000	0.000000	0.000000	0.279000	0.279000	0.279000
04/12/91	131B	C012	1.050000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.284000	LT	0.564000	0.871000	0.161000	0.161000	0.161000	0.161000
04/18/91	133A	CA02	0.519000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.485000	LT	0.284000	0.000000	0.000000	0.000000	0.041700	0.041700
04/18/91	134A	CA03	0.767000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.061800	LT	0.041700	LT	0.715000	LT	0.503000	0.000000	0.000000	0.000000	0.067000	0.067000
04/18/91	135A	CA05	0.295000	LT	0.125000	LT	0.041700	LT	0.059200	LT	0.063400	LT	0.041700	LT	0.661000	LT	0.167000	0.000000	0.000000	0.000000	0.082500	0.082500
04/18/91	136A	CFC1	0.419000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.059500	LT	0.041700	LT	0.711000	LT	0.212000	0.000000	0.000000	0.000000	0.121000	0.121000
04/18/91	137A	CFC1C	0.814000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.102000	LT	0.041700	LT	1.130000	LT	0.557000	0.000000	0.000000	0.000000	0.096600	0.096600
04/18/91	138A	CFC2	0.693000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.610000	LT	0.393000	0.000000	0.000000	0.000000	0.286000	0.286000
04/18/91	139A	CFC5	0.194000	LT	0.125000	LT	0.041700	LT	0.507000	LT	0.041700	LT	0.041700	LT	1.030000	LT	0.294000	0.000000	0.000000	0.000000	0.144000	0.144000
04/18/91	140A	C011	0.958000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	1.730000	LT	0.613000	0.000000	0.000000	0.000000	0.123000	0.123000
04/18/91	140B	C011	1.300000	LT	0.125000	LT	0.041700	LT	0.129000	LT	0.041700	LT	0.041700	LT	0.700000	LT	0.749000	0.557000	0.000000	0.411000	0.411000	0.411000
04/18/91	141A	C012	1.140000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	2.110000	LT	0.716000	0.000000	0.000000	0.166000	0.166000	0.166000
04/18/91	141B	C012	0.758000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.446000	LT	0.306000	0.000000	0.000000	0.172000	0.172000	0.172000
04/24/91	143A	CA02	1.170000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	1.290000	LT	0.526000	0.751000	0.000000	0.041700	0.041700	0.041700
04/24/91	144A	CA03	0.958000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.765000	LT	0.540000	0.000000	0.000000	0.175000	0.175000	0.175000
04/24/91	145A	CA05	2.250000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	1.150000	LT	0.495000	0.000000	0.000000	0.041700	0.041700	0.041700
04/24/91	145B	CA05	0.168000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.055600	LT	0.062500	1.230000	0.000000	0.041700	0.041700	0.041700
04/24/91	146A	CFC1	1.360000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	1.070000	LT	0.623000	0.000000	0.000000	1.090000	1.090000	1.090000
04/24/91	147A	CFC1C	0.822000	LT	0.125000	LT	0.041700	LT	0.186000	LT	0.041700	LT	0.041700	LT	1.160000	LT	0.527000	0.000000	0.000000	0.863000	0.863000	0.863000
04/24/91	148A	CFC2	0.979000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.804000	LT	0.388000	0.000000	0.000000	0.928000	0.928000	0.928000
04/24/91	149A	CFC5	0.976000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.784000	LT	0.423000	0.000000	0.000000	0.828000	0.828000	0.828000
04/24/91	150B	C011	0.528000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.178000	LT	0.186000	1.200000	0.000000	0.253000	0.253000	0.253000
04/24/91	150A	C011	1.580000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	1.850000	LT	0.644000	0.423000	0.000000	0.325000	0.325000	0.325000
04/30/91	153A	CA02	0.934000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.832000	LT	0.563000	0.000000	0.000000	0.081100	0.081100	0.081100
04/30/91	154A	CA03	0.474000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.467000	LT	0.377000	0.000000	0.000000	0.067500	0.067500	0.067500
04/30/91	155A	CA05	1.030000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.622000	LT	0.483000	0.000000	0.000000	0.078500	0.078500	0.078500
04/30/91	156A	CFC1	0.193000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.119000	LT	0.117000	0.000000	0.000000	0.041700	0.041700	0.041700
04/30/91	157A	CFC1C	0.875000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.128000	LT	0.041700	LT	0.986000	LT	0.604000	0.000000	0.000000	0.180000	0.180000	0.180000
04/30/91	157B	CFC1C	0.535000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.275000	LT	0.290000	0.000000	0.000000	0.085800	0.085800	0.085800

## WOODWARD-CLYDE CONSULTANTS

## ROCKY MOUNTAIN ARSENAL PROGRAM

## SUMMARY OF VOLATILE ORGANIC COMPOUND CONCENTRATIONS

ALL UNITS ARE IN UG/M3

FIELD		SITE ID	111TCE		112TCE		11DCLE		12DCE		12DCLE		BOHPD		C6H6		CCL4		CH2CL2		CHCL3	
SAMPLE DATE	SAMPLE NUMBER		RESULTS		RESULTS		RESULTS		RESULTS		RESULTS		RESULTS		RESULTS		RESULTS		RESULTS		RESULTS	
04/30/91	158A	CFC2	0.180000		LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	0.630000	0.072000	0.000000		0.000000		0.117000	
04/30/91	159A	CFC3	LT	0.079900		LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.055600	LT	0.062500	0.000000	LT	0.041700
04/30/91	160A	CFC4	0.854000		LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	0.617000	0.561000	0.000000		0.000000		0.148000	
04/30/91	161A	CFC5	0.799000		LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	0.552000	0.507000	0.000000		0.000000		0.180000	
04/30/91	162A	CQ11	0.172000		LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	0.122000	0.120000	0.000000		0.458000	LT	0.041700	
04/30/91	163B	CQ12	0.698000		LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	0.208000	0.334000	0.000000		0.386000		0.129000	
04/30/91	163A	CQ12	1.050000		LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	1.470000	0.796000	0.000000		0.000000		0.141000	
05/06/91	165A	CAQ2	0.955000		LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	1.690000	0.543000	0.000000		0.000000	LT	0.041700	
05/06/91	166A	CAQ3	0.625000		LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	0.413000	0.314000	0.000000		0.000000		0.072900	
05/06/91	167A	CAQ5	2.880000		LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	1.380000	0.593000	0.000000		0.000000		0.088600	
05/06/91	167B	CAQ5	0.284000		LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	0.055600	0.078300	0.552000		0.000000	LT	0.041700	
05/06/91	168A	CFC1	0.796000		LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	0.654000	0.360000	0.000000		0.000000		0.154000	
05/06/91	169A	CFC1C	0.269000		LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	0.209000	0.124000	0.000000		0.000000		0.051900	
05/06/91	170A	CFC2	1.000000		LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	1.170000	0.481000	0.000000		0.000000		0.405000	
05/06/91	170B	CFC2	0.419000		LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	0.058800	0.131000	0.000000		0.000000		0.243000	
05/06/91	171A	CFC5	1.010000		LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	1.070000	0.464000	0.000000		0.000000		0.221000	
05/06/91	172A	CQ11	1.210000		LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	1.030000	0.571000	0.000000		0.000000		0.212000	
05/06/91	174A	CQ12	0.858000		LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	1.060000	0.445000	0.000000		0.000000		0.140000	
05/12/91	176A	CAQ2	0.567000		LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	0.720000	0.374000	0.000000		0.000000		0.054000	
05/12/91	177A	CAQ3	0.195000		LT	0.125000	LT	0.041700	LT	0.041700	LT	0.053100	LT	0.041700	0.493000	0.497000	0.000000		0.000000	LT	0.041700	
05/12/91	178B	CAQ5	0.276000		LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	0.124000	0.104000	0.000000		0.000000		0.043100	
05/12/91	178A	CAQ5	0.900000		LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	0.645000	0.397000	0.000000		0.000000		0.044100	
05/12/91	179A	CFC1	0.774000		LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	0.809000	0.663000	0.000000		0.000000		0.462000	
05/12/91	180A	CFC1C	0.458000		LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	0.635000	0.448000	0.000000		0.000000		0.207000	
05/12/91	181B	CFC2	0.384000		LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	0.136000	0.300000	2.090000		0.000000		1.050000	
05/12/91	181A	CFC2	1.140000		LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	0.842000	0.945000	0.000000		0.000000		0.356000	
05/12/91	182A	CFC5	0.434000		LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	0.347000	0.292000	0.000000		0.000000		0.287000	
05/12/91	183A	CQ11	0.629000		LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	0.543000	0.500000	0.000000		0.000000		0.053200	
05/12/91	194A	CQ12	0.451000		LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	0.430000	0.349000	0.000000		0.000000	LT	0.041700	
05/18/91	196A	CAQ2	0.587000		LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	0.371000	0.465000	0.000000		0.000000		0.041700	
05/18/91	197A	CAQ3	0.541000		LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	0.235000	0.431000	0.000000		0.000000	LT	0.041700	

## WOODWARD-CLYDE CONSULTANTS

## ROCKY MOUNTAIN ARSENAL PROGRAM

## SUMMARY OF VOLATILE ORGANIC COMPOUND CONCENTRATIONS

ALL UNITS ARE IN UG/M3

FIELD		SITE ID	111TCE		112TCE		11DCLE		12DCE		12DCLE		BOPOD		C6H6		CCL4		CH2CL2		CHCL3	
SAMPLE DATE	SAMPLE NUMBER		RESULTS		RESULTS		RESULTS		RESULTS		RESULTS		RESULTS		RESULTS		RESULTS		RESULTS		RESULTS	
05/18/91	198A	CA05	0.889000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.316000	0.533000	0.000000	0.000000	0.000000	LT	0.041700	LT
05/18/91	198B	CA05	0.148000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.055600	0.076300	0.697000	0.697000	0.697000	LT	0.041700	LT
05/18/91	199A	CFC1	0.393000	LT	0.125000	LT	0.041700	LT	0.101000	LT	0.041700	LT	0.041700	LT	0.283000	0.481000	0.000000	0.000000	0.000000	LT	0.041700	LT
05/18/91	200A	CFC1C	0.604000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.247000	0.523000	0.000000	0.000000	0.000000	0.055100	0.055100	0.055100
05/18/91	201A	CFC2	0.512000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.220000	0.449000	0.000000	0.000000	0.000000	0.050200	0.050200	0.050200
05/18/91	202A	CFC5	0.437000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.185000	0.342000	0.000000	0.000000	0.000000	LT	0.041700	LT
05/18/91	203A	C011	0.482000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.296000	0.399000	0.000000	0.000000	0.000000	LT	0.041700	LT
05/18/91	204A	C012	0.632000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.210000	0.462000	0.000000	0.000000	0.000000	LT	0.041700	LT
05/24/91	207B	CA02	0.403000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.147000	0.148000	0.660000	0.660000	0.660000	LT	0.041700	LT
05/24/91	207A	CA02	1.470000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	1.980000	0.535000	0.000000	0.000000	0.000000	0.083000	0.083000	0.083000
05/24/91	208A	CA03	0.879000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	1.270000	0.355000	0.000000	0.000000	0.000000	0.071600	0.071600	0.071600
05/24/91	209A	CA05	1.250000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	1.500000	0.483000	0.000000	0.000000	0.000000	0.076700	0.076700	0.076700
05/24/91	209B	CA05	0.351000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.059000	0.110000	0.521000	0.521000	0.521000	LT	0.041700	LT
05/24/91	210A	CFC1	1.080000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	1.330000	0.418000	0.000000	0.000000	0.000000	0.071900	0.071900	0.071900
05/24/91	211A	CFC1C	1.330000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	1.520000	0.498000	0.000000	0.000000	0.000000	0.080000	0.080000	0.080000
05/24/91	212A	CFC2	0.829000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	1.360000	0.345000	0.000000	0.000000	0.000000	0.081900	0.081900	0.081900
05/24/91	213A	CFC3	1.150000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	1.280000	0.472000	0.000000	0.000000	0.000000	0.073600	0.073600	0.073600
05/24/91	214A	CFC4	1.180000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	1.400000	0.476000	0.000000	0.000000	0.000000	0.081800	0.081800	0.081800
05/24/91	215A	CFC5	0.867000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	1.130000	0.062500	0.000000	0.000000	0.000000	0.096900	0.096900	0.096900
05/24/91	216A	C011	LT	0.079900	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.055600	0.062500	0.000000	0.000000	0.000000	LT	0.041700
05/24/91	217A	C012	0.986000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	1.310000	0.409000	0.000000	0.000000	0.000000	0.049300	0.049300	0.049300
05/30/91	219A	CA02	0.473000	LT	0.125000	LT	0.041700	LT	0.493000	LT	0.041700	LT	0.041700	LT	2.150000	0.204000	0.000000	0.000000	0.000000	0.154000	0.154000	0.154000
05/30/91	219B	CA02	0.701000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.333000	0.188000	0.748000	0.748000	0.748000	0.060900	0.060900	0.060900
05/30/91	220A	CA03	1.180000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	1.360000	0.430000	0.000000	0.000000	0.000000	0.113000	0.113000	0.113000
05/30/91	221A	CA05	1.050000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	1.600000	0.348000	0.000000	0.000000	0.000000	0.075000	0.075000	0.075000
05/30/91	222A	CFC1	0.577000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.549000	0.193000	0.000000	0.000000	0.000000	0.162000	0.162000	0.162000
05/30/91	223A	CFC1C	1.180000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	1.510000	0.369000	0.000000	0.000000	0.000000	0.257000	0.257000	0.257000
05/30/91	224A	CFC2	1.110000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	1.400000	0.334000	0.000000	0.000000	0.000000	0.904000	0.904000	0.904000
05/30/91	225A	CFC5	0.897000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	1.280000	0.280000	0.000000	0.000000	0.000000	0.227000	0.227000	0.227000
05/30/91	226A	C011	0.311000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.242000	0.096900	0.000000	0.000000	0.000000	0.058800	0.058800	0.058800
05/30/91	227A	C012	1.490000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	1.200000	0.420000	0.000000	0.000000	0.000000	0.180000	0.180000	0.180000



## WOODWARD-CLYDE CONSULTANTS

## ROCKY MOUNTAIN ARSENAL PROGRAM

## SUMMARY OF VOLATILE ORGANIC COMPOUND CONCENTRATIONS

ALL UNITS ARE IN UG/M3

FIELD		SITE ID	111TCE		112TCE		11DCE		12DCE		12DCE		12DCE		BOHPD		C6H6		CCL4		CH2CL2		CHCL3	
SAMPLE DATE	SAMPLE NUMBER		RESULTS		RESULTS		RESULTS		RESULTS		RESULTS		RESULTS		RESULTS		RESULTS		RESULTS		RESULTS		RESULTS	
05/31/91	221B	CA05	0.419000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.075300	0.143000	0.473000	0.143000	0.473000	LT	0.041700	LT
06/05/91	229A	CA02	0.771000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	1.520000	0.268000	0.000000	0.268000	0.000000	0.000000	0.044700	0.044700
06/05/91	229B	CA02	0.823000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.741000	0.270000	0.683000	0.270000	0.683000	0.098000	0.098000	0.098000
06/05/91	230A	CA03	0.343000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.937000	0.140000	0.000000	0.140000	0.000000	0.000000	0.041700	0.041700
06/05/91	231B	CA05	0.830000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.565000	0.139000	2.070000	0.139000	2.070000	LT	0.041700	LT
06/05/91	231A	CA05	0.949000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.997000	0.194000	0.000000	0.194000	0.000000	0.000000	0.041700	0.041700
06/05/91	232A	CFC1	0.753000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.921000	0.259000	0.000000	0.259000	0.000000	0.000000	0.143000	0.143000
06/05/91	233A	CFC1C	0.405000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.969000	0.118000	0.000000	0.118000	0.000000	0.000000	0.132000	0.132000
06/05/91	234A	CFC2	0.762000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.883000	0.238000	0.000000	0.238000	0.000000	0.000000	0.226000	0.226000
06/05/91	235A	CFC5	0.733000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.934000	0.258000	0.000000	0.258000	0.000000	0.000000	0.041700	0.041700
06/05/91	236A	CQ11	0.511000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.610000	0.164000	0.000000	0.164000	0.000000	0.000000	0.047200	0.047200
06/11/91	239A	CA02	0.636000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.648000	0.405000	0.000000	0.405000	0.000000	0.000000	0.041700	0.041700
06/11/91	240A	CA03	0.336000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.216000	0.152000	0.000000	0.152000	0.000000	0.000000	0.041700	0.041700
06/11/91	241B	CA05	2.490000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.123000	0.195000	1.030000	0.195000	1.030000	0.066900	0.066900	0.066900
06/11/91	241A	CA05	2.490000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	1.420000	0.352000	0.000000	0.352000	0.000000	0.000000	0.075500	0.075500
06/11/91	242A	CFC1	0.550000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.962000	0.324000	0.515000	0.324000	0.515000	0.059800	0.059800	0.059800
06/11/91	243A	CFC1C	0.660000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.808000	0.296000	0.000000	0.296000	0.000000	0.000000	0.081100	0.081100
06/11/91	244A	CFC2	0.695000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.818000	0.317000	0.000000	0.317000	0.000000	0.000000	0.476000	0.476000
06/11/91	244B	CFC2	0.425000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.209000	0.342000	2.740000	0.342000	2.740000	2.200000	2.200000	2.200000
06/11/91	245A	CFC5	0.753000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.928000	0.356000	0.000000	0.356000	0.000000	0.000000	0.088700	0.088700
06/11/91	246A	CQ11	0.554000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.702000	0.276000	0.772000	0.276000	0.772000	LT	0.041700	LT
06/11/91	247A	CQ12	0.235000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.176000	0.098900	0.919000	0.098900	0.919000	LT	0.041700	LT
06/13/91	249B	CA01	0.621000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.652000	0.156000	1.130000	0.156000	1.130000	0.073000	0.073000	0.073000
06/13/91	249A	CA01	1.490000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	2.010000	0.335000	1.770000	0.335000	1.770000	0.081600	0.081600	0.081600
06/13/91	250A	CA03	0.723000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.775000	0.301000	0.796000	0.301000	0.796000	LT	0.041700	LT
06/13/91	251A	CA04	0.622000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.677000	0.280000	0.556000	0.280000	0.556000	LT	0.041700	LT
06/13/91	252A	CA05	0.778000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.469000	0.206000	1.180000	0.206000	1.180000	0.297000	0.297000	0.297000
06/13/91	253A	CFC1	1.250000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.952000	0.286000	1.520000	0.286000	1.520000	0.055900	0.055900	0.055900
06/13/91	254A	CFC1C	0.724000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.945000	0.173000	0.414000	0.173000	0.414000	LT	0.041700	LT
06/13/91	255A	CFC2	0.958000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.833000	0.249000	0.486000	0.249000	0.486000	0.218000	0.218000	0.218000
06/13/91	256A	CFC3	0.671000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.822000	0.095200	0.000000	0.095200	0.000000	0.000000	0.041700	0.041700

## WOODWARD-CLYDE CONSULTANTS

## ROCKY MOUNTAIN ARSENAL PROGRAM

## SUMMARY OF VOLATILE ORGANIC COMPOUND CONCENTRATIONS

ALL UNITS ARE IN UG/M3

FIELD		SITE ID	111TCE		112TCE		11DCLE		12DCE		12DCLE		BOHPD		C6H6		CCL4		CH2CL2		CHCL3	
SAMPLE DATE	SAMPLE NUMBER		RESULTS		RESULTS		RESULTS		RESULTS		RESULTS		RESULTS		RESULTS		RESULTS		RESULTS		RESULTS	
06/13/91	257A	CFC5	0.687000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.863000	0.224000	0.756000	LT	0.041700			
06/13/91	257B	CFC5	1.000000	LT	0.125000	LT	0.041700	LT	0.094500	LT	0.041700	LT	0.041700	LT	0.928000	0.962000	1.100000	2.300000				
06/17/91	259A	CAQ2	0.844000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	1.450000	0.230000	0.000000	0.046200				
06/17/91	259B	CAQ2	0.715000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.517000	0.250000	0.000000	0.086800				
06/17/91	260A	CAQ3	0.730000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.872000	0.272000	0.638000	LT	0.041700			
06/17/91	261A	CAQ5	0.284000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.342000	0.112000	0.000000	LT	0.041700			
06/17/91	262A	CFC1	0.356000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	1.110000	0.261000	1.650000	LT	0.041700			
06/17/91	263A	CFC1C	0.715000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	1.040000	0.221000	0.000000	LT	0.041700			
06/17/91	264A	CFC2	0.741000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.968000	0.247000	0.000000	0.066000				
06/17/91	265A	CFC3	0.635000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.761000	0.236000	0.000000	LT	0.041700			
06/17/91	266A	CFC4	0.276000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.305000	0.093700	0.000000	LT	0.041700			
06/17/91	267A	CFC5	0.748000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	1.000000	0.240000	0.355000	LT	0.041700			
06/17/91	268A	CO11	0.915000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	1.050000	0.294000	0.427000	LT	0.041700			
06/17/91	269A	CO12	0.681000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.790000	0.225000	0.870000	LT	0.041700			
06/19/91	273A	CFC1C	0.719000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.607000	0.338000	0.000000	0.265000				
06/21/91	277A	CAQ1	0.538000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	1.290000	0.230000	0.000000	0.043800				
06/21/91	277B	CAQ1	0.287000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.359000	0.111000	0.655000	LT	0.041700			
06/21/91	278A	CAQ3	0.362000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.414000	0.231000	0.000000	0.071700				
06/21/91	280A	CAQ5	0.773000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.959000	0.276000	0.447000	LT	0.041700			
06/21/91	281A	CFC2	LT	0.079900	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.055600	LT	0.448000	LT	0.041700		
06/21/91	282A	CO11	0.294000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.415000	0.185000	0.000000	0.045300				
06/21/91	283A	CO12	0.408000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.662000	0.272000	1.010000	0.047000				
06/23/91	287A	CAQ2	0.483000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.542000	0.296000	0.000000	0.053500				
06/23/91	288A	CAQ3	0.483000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.353000	0.306000	0.000000	LT	0.041700			
06/23/91	289A	CAQ5	0.754000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.588000	0.261000	0.657000	0.055000				
06/23/91	289B	CAQ5	0.522000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.353000	0.177000	0.450000	LT	0.041700			
06/23/91	290A	CFC1	0.386000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.397000	0.251000	0.000000	0.047600				
06/23/91	291A	CFC1C	0.390000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.383000	0.261000	0.000000	0.051700				
06/23/91	291B	CFC1C	0.179000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.369000	0.124000	0.000000	0.068300				
06/23/91	292A	CFC2	0.342000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.295000	0.199000	0.000000	0.079700				
06/23/91	293A	CFC5	0.474000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.519000	0.310000	0.000000	0.078500				

## WOODWARD-CLYDE CONSULTANTS

## ROCKY MOUNTAIN ARSENAL PROGRAM

## SUMMARY OF VOLATILE ORGANIC COMPOUND CONCENTRATIONS

ALL UNITS ARE IN UG/M3

FIELD		SITE ID	111TCE		112TCE		11DCLE		12DCE		12DCLE		BOHPD		C6H6		CCL4		CH2CL2		CHCL3	
SAMPLE DATE	SAMPLE NUMBER		RESULTS		RESULTS		RESULTS		RESULTS		RESULTS		RESULTS		RESULTS		RESULTS		RESULTS		RESULTS	
06/23/91	294A	CQ11	0.497000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.438000	0.307000	0.000000	0.000000	0.000000	LT	0.041700	0.041700
06/23/91	295A	CQ12	0.488000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.446000	0.305000	0.000000	0.000000	0.000000	LT	0.041700	0.041700
06/29/91	307A	CAQ2	0.804000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	1.710000	0.220000	1.220000	0.220000	1.220000	LT	0.041700	0.041700
06/29/91	308A	CAQ3	0.422000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.819000	0.189000	0.189000	0.189000	0.887000	LT	0.041700	0.041700
06/29/91	309A	CAQ5	1.100000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	2.290000	0.336000	0.336000	0.336000	3.250000	0.073100	0.073100	0.073100
06/29/91	309B	CAQ5	0.300000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.731000	0.074800	0.074800	0.074800	1.150000	LT	0.041700	0.041700
06/29/91	310B	CFC1	0.377000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.831000	0.093700	0.093700	0.093700	1.440000	0.125000	0.125000	0.125000
06/29/91	310A	CFC1	0.560000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	1.370000	0.231000	0.231000	0.231000	0.951000	0.092300	0.092300	0.092300
06/29/91	311A	CFC1C	0.567000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	1.560000	0.212000	0.212000	0.212000	2.180000	LT	0.041700	0.041700
06/29/91	312A	CFC2	0.489000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	1.010000	0.205000	0.205000	0.205000	1.730000	0.083800	0.083800	0.083800
06/29/91	313A	CFC5	0.433000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	1.060000	0.162000	0.162000	0.162000	1.240000	0.101000	0.101000	0.101000
06/29/91	314A	CQ11	0.351000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.578000	0.137000	0.137000	0.137000	0.887000	0.053200	0.053200	0.053200
06/29/91	315A	CQ12	0.518000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	1.220000	0.062500	0.062500	0.062500	1.410000	LT	0.041700	0.041700
07/05/91	317A	CAQ2	0.515000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.918000	0.243000	0.243000	0.243000	1.330000	0.051900	0.051900	0.051900
07/05/91	318A	CAQ3	0.360000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.543000	0.195000	0.195000	0.195000	1.740000	LT	0.041700	0.041700
07/05/91	319B	CAQ5	0.148000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.173000	0.062500	0.062500	0.062500	1.210000	LT	0.041700	0.041700
07/05/91	319A	CAQ5	0.191000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	1.080000	0.062500	0.062500	0.062500	2.520000	LT	0.041700	0.041700
07/05/91	320A	CFC1	0.493000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.836000	0.236000	0.236000	0.236000	1.110000	0.076700	0.076700	0.076700
07/05/91	321A	CFC1C	0.596000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.897000	0.269000	0.269000	0.269000	3.470000	0.111000	0.111000	0.111000
07/05/91	322A	CFC2	0.384000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.678000	0.197000	0.197000	0.197000	1.370000	0.320000	0.320000	0.320000
07/05/91	323A	CFC5	0.529000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.759000	0.255000	0.255000	0.255000	1.790000	LT	0.041700	0.041700
07/05/91	324A	CQ11	0.386000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.552000	0.187000	0.187000	0.187000	1.830000	LT	0.041700	0.041700
07/05/91	324B	CQ11	0.109000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.055600	0.062500	0.062500	0.062500	1.080000	LT	0.041700	0.041700
07/05/91	325A	CQ12	0.079900	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.055600	0.062500	0.062500	0.062500	3.410000	LT	0.041700	0.041700
07/11/91	327A	CAQ2	0.710000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.491000	0.275000	0.275000	0.275000	1.300000	LT	0.041700	0.041700
07/11/91	328A	CAQ3	1.000000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.890000	0.404000	0.404000	0.404000	0.836000	LT	0.041700	0.041700
07/11/91	329A	CAQ5	2.060000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	2.190000	0.261000	0.261000	0.261000	1.970000	0.222000	0.222000	0.222000
07/11/91	330A	CFC1	0.361000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.272000	0.175000	0.175000	0.175000	1.020000	LT	0.041700	0.041700
07/11/91	331A	CFC1C	0.378000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.522000	0.179000	0.179000	0.179000	1.180000	LT	0.041700	0.041700
07/11/91	331B	CFC1C	0.546000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.660000	0.265000	0.265000	0.265000	1.900000	0.083200	0.083200	0.083200
07/11/91	332A	CFC2	0.579000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.736000	0.269000	0.269000	0.269000	1.620000	0.125000	0.125000	0.125000

WOODWARD-CLYDE CONSULTANTS

ROCKY MOUNTAIN ARSENAL PROGRAM

SUMMARY OF VOLATILE ORGANIC COMPOUND CONCENTRATIONS

ALL UNITS ARE IN UG/M3

FIELD		SITE ID	111TCE		112TCE		11DCLE		12DCE		12DCLE		BOHPD		C6H6		CCL4		CH2CL2		CHCL3	
SAMPLE DATE	SAMPLE NUMBER		RESULTS	111TCE	RESULTS	112TCE	RESULTS	11DCLE	RESULTS	12DCE	RESULTS	12DCLE	RESULTS	BOHPD	RESULTS	C6H6	RESULTS	CCL4	RESULTS	CH2CL2	RESULTS	CHCL3
07/11/91	332B		CFC2	0.507000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	0.390000		0.245000		0.675000		0.524000	
	333A		CFC3	0.668000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	0.863000		0.317000		1.170000		0.041700	
	334A		CFC4	0.385000	LT	0.125000	LT	0.041700	0.123000	LT	0.041700	LT	0.041700	LT	0.041700	0.852000		0.104000		1.320000		0.041700
07/11/91	335A		CFC5	0.497000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	0.675000		0.252000		0.428000		0.042100	
07/11/91	336A		CQ11	0.630000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	0.541000		0.287000		2.790000		0.065100	
07/11/91	337A		CQ12	LT	0.079900	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.062500	LT	1.120000		0.041700	
07/17/91	339B		CAQ2	0.600000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	0.155000		0.133000	GT	3.470000		0.125000	
07/17/91	339A		CAQ2	0.941000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	1.310000		0.247000	GT	3.470000		0.041700	
07/17/91	340A		CAQ3	0.622000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	0.684000		0.234000		0.990000		0.041700	
07/17/91	341A		CAQ5	1.030000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	1.310000		0.261000		0.548000		0.041700	
07/17/91	342B		CFC1	0.395000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	0.976000		0.116000	GT	3.470000		0.220000	
07/17/91	342A		CFC1	0.694000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	0.759000		0.216000		0.439000		0.041700	
07/17/91	343A		CFC1C	0.704000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	0.793000		0.205000		0.878000		0.117000	
07/17/91	344A		CFC2	0.595000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.070700	0.963000		0.209000		0.000000		0.041700	
07/17/91	345A		CFC5	0.510000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	0.537000		0.176000		1.840000		0.158000	
07/17/91	346A		CQ11	0.270000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	0.514000		0.125000		1.760000		0.041700	
07/17/91	347A		CQ12	0.640000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	0.896000		0.224000	GT	3.470000		0.044600	
07/23/91	349B		CAQ2	0.381000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	0.160000		0.226000	GT	3.470000		0.041700	
07/23/91	349A		CAQ2	0.835000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	0.911000		0.584000	GT	3.470000		0.050900	
07/23/91	350A		CAQ3	0.603000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	0.247000		0.444000		1.150000		0.041100	
07/23/91	351A		CAQ5	0.730000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	0.505000		0.539000		0.980000		0.041700	
07/23/91	351B		CAQ5	0.306000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	0.292000		0.191000	GT	3.470000		0.041700	
07/23/91	352A		CFC1	0.697000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	0.476000		0.541000		0.364000		0.076200	
07/23/91	353A		CFC1C	0.847000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	0.456000		0.626000		0.616000		0.076500	
07/23/91	354A		CFC2	0.820000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	0.337000		0.643000	GT	3.470000		0.156000	
07/23/91	355A		CFC5	0.669000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	0.300000		0.537000		1.680000		0.058400	
07/23/91	356A		CQ11	0.583000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	0.256000		0.522000		0.868000		0.041700	
07/23/91	357A		CQ12	0.431000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	0.260000		0.352000		1.180000		0.041700	
07/29/91	1B		CAQ2	0.955000	LT	0.125000	LT	0.041700		0.286000	LT	0.041700	LT	0.041700	0.615000		0.230000		1.750000		0.091700	
07/29/91	1A		CAQ2	1.600000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	1.520000		0.313000		0.000000		0.041700	
07/29/91	2A		CAQ3	0.864000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	0.664000		0.253000		0.000000		0.041700	

## WOODWARD-CLYDE CONSULTANTS

## ROCKY MOUNTAIN ARSENAL PROGRAM

## SUMMARY OF VOLATILE ORGANIC COMPOUND CONCENTRATIONS

ALL UNITS ARE IN UG/M3

FIELD		SITE ID	111TCE		112TCE		11DCLE		12DCE		12DCLE		BOHPD		C6H6		CCL4		CH2CL2		CHCL3	
SAMPLE DATE	SAMPLE NUMBER		RESULTS		RESULTS		RESULTS		RESULTS		RESULTS		RESULTS		RESULTS		RESULTS		RESULTS		RESULTS	
07/29/91	3A	CA05	0.923000		LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	1.280000	0.333000	0.455000	0.455000	LT	0.041700	0.455000	LT
07/29/91	4A	CFC1	0.972000		LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	1.480000	0.264000	0.000000	0.000000	LT	0.041700	0.000000	LT
07/29/91	5B	CFC1C	1.300000		LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	0.704000	0.283000	0.347000	0.347000	GT	3.470000	0.156000	0.156000
07/29/91	5A	CFC1C	1.370000		LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	1.260000	0.318000	0.966000	0.966000		0.043600	0.043600	
07/29/91	6A	CFC2	1.930000		LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	1.270000	0.391000	0.597000	0.597000		0.222000	0.222000	
07/29/91	7A	CFC5	1.460000		LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	1.220000	0.321000	0.914000	0.914000		0.044500	0.044500	
07/29/91	8A	CO11	1.320000		LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	1.080000	0.316000	1.150000	1.150000		0.061900	0.061900	
07/29/91	9A	CO12	1.140000		LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	0.886000	0.263000	0.938000	0.938000		0.061800	0.061800	
08/04/91	16A	CA02	0.703000		LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	1.140000	0.355000	1.010000	1.010000		0.041700	0.041700	
08/04/91	17A	CA03	0.301000		LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	0.804000	0.168000	1.150000	1.150000		0.067300	0.067300	
08/04/91	18A	CA05	1.620000		LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	1.800000	0.534000	1.830000	1.830000		0.041700	0.041700	
08/04/91	21A	CFC1	0.716000		LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	1.290000	0.421000	1.180000	1.180000		0.106000	0.106000	
08/04/91	22A	CFC1C	0.674000		LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	1.170000	0.376000	0.812000	0.812000		0.107000	0.107000	
08/04/91	22B	CFC1C	LT	0.079900	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	0.055600	0.062500	0.493000	0.493000		0.041700	0.041700	
08/04/91	23A	CFC2	0.657000		LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	1.170000	0.377000	0.000000	0.000000		0.135000	0.135000	
08/04/91	24A	CFC5	0.605000		LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	1.200000	0.062500	0.000000	0.000000		0.116000	0.116000	
08/04/91	19A	CO11	0.752000		LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	1.160000	0.416000	0.953000	0.953000		0.083600	0.083600	
08/04/91	20B	CO12	0.494000		LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	0.055600	0.201000	0.378000	0.378000		0.215000	0.215000	
08/04/91	20A	CO12	0.854000		LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	1.290000	0.476000	2.060000	2.060000		0.107000	0.107000	
08/10/91	31A	CA02	0.140000		LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	0.141000	0.057400	0.449000	0.449000		0.041700	0.041700	
08/10/91	32A	CA03	0.478000		LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	0.608000	0.287000	0.000000	0.000000		0.053600	0.053600	
08/10/91	33A	CA05	0.774000		LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	0.917000	0.320000	0.590000	0.590000		0.075700	0.075700	
08/10/91	36A	CFC1	0.918000		LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	0.864000	0.386000	1.740000	1.740000		0.140000	0.140000	
08/10/91	37A	CFC1C	0.700000		LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	0.937000	0.310000	0.422000	0.422000		0.107000	0.107000	
08/10/91	37B	CFC1C	0.481000		LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	0.366000	0.158000	0.836000	0.836000		0.092000	0.092000	
08/10/91	38A	CFC2	0.742000		LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	0.952000	0.333000	0.402000	0.402000		0.200000	0.200000	
08/10/91	39A	CFC5	0.780000		LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	0.853000	0.333000	0.409000	0.409000		0.137000	0.137000	
08/10/91	34B	CO11	0.200000		LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	0.055600	0.062500	0.378000	0.378000		0.092500	0.092500	
08/10/91	34A	CO11	0.616000		LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	0.663000	0.298000	0.827000	0.827000		0.161000	0.161000	
08/10/91	35A	CO12	0.708000		LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	0.981000	0.360000	0.719000	0.719000		0.108000	0.108000	
08/16/91	41A	CA02	1.010000		LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	1.680000	0.226000	0.000000	0.000000		0.041700	0.041700	

## WOODWARD-CLYDE CONSULTANTS

## ROCKY MOUNTAIN ARSENAL PROGRAM

## SUMMARY OF VOLATILE ORGANIC COMPOUND CONCENTRATIONS

ALL UNITS ARE IN UG/M3

FIELD		SITE ID	111TCE		112TCE		11DCLE		12DCE		12DCLE		BOHPD		C6H6		CCL4		CH2CL2		CHCL3	
SAMPLE DATE	SAMPLE NUMBER		RESULTS		RESULTS		RESULTS		RESULTS		RESULTS		RESULTS		RESULTS		RESULTS		RESULTS		RESULTS	
08/16/91	41B	CAQ2	0.803000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.197000	0.763000	0.201000	0.086800				
08/16/91	42A	CAQ3	LT	0.079900	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.881000	0.262000	0.089200				
08/16/91	43A	CAQ5	1.210000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	1.320000	0.220000	0.000000	0.000000	LT	0.041700		
08/16/91	44A	CFC1	1.050000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	1.380000	0.276000	0.000000	0.084000				
08/16/91	45A	CFC1C	0.806000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	1.160000	0.238000	0.000000	0.070100				
08/16/91	46A	CFC2	0.830000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	1.150000	0.216000	0.000000	0.095800				
08/16/91	47A	CFC3	0.977000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	1.090000	0.245000	0.000000	0.134000				
08/16/91	48A	CFC4	0.840000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	1.150000	0.062500	0.000000	0.094000				
08/16/91	48B	CFC4	0.509000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.399000	0.117000	0.287000	0.045200				
08/16/91	49A	CFC5	1.010000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	1.220000	0.276000	0.000000	0.113000				
08/16/91	50A	CQ11	0.972000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.940000	0.276000	0.000000	0.133000				
08/16/91	51A	CQ12	1.270000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	1.270000	0.307000	0.000000	0.114000				
08/22/91	53B	CAQ2	0.704000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.399000	0.135000	0.341000	0.080100				
08/22/91	53A	CAQ2	1.630000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	2.230000	0.243000	0.243000	0.104000				
08/22/91	58A	CAQ3	1.090000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	1.150000	0.000000	0.000000	0.119000				
08/22/91	55A	CAQ5	1.150000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	1.960000	0.271000	0.271000	0.084400				
08/22/91	56A	CFC1	1.180000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.872000	0.226000	0.226000	0.062400				
08/22/91	57A	CFC1C	1.090000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	1.590000	0.104000	0.104000	0.094800				
08/22/91	54A	CFC2	0.144000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.144000	0.039900	0.039900	0.031600				
08/22/91	59A	CFC5	1.520000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	1.770000	0.302000	0.302000	0.143000				
08/22/91	60A	CQ11	0.955000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	1.250000	0.230000	0.230000	0.113000				
08/22/91	61A	CQ12	1.150000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	1.500000	0.276000	0.276000	0.125000				
08/22/91	61B	CQ12	0.553000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.055600	0.143000	0.143000	0.071100				
08/27/91	63A	CAQ2	0.852000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.410000	0.210000	0.210000	0.059000				
08/27/91	64A	CAQ3	1.220000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.918000	0.346000	0.346000	0.077200				
08/27/91	65A	CAQ5	1.140000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	1.160000	0.284000	0.284000	0.047500				
08/28/91	11A	CAQ2	0.871000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	1.060000	0.246000	0.246000	0.041700				
08/28/91	12A	CAQ3	0.649000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.477000	0.216000	0.216000	0.041700				
08/28/91	13B	CAQ5	0.692000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.315000	0.218000	0.218000	0.041700				
08/28/91	13A	CAQ5	1.090000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	1.290000	0.262000	0.262000	0.041700				
08/28/91	14A	CFC1	0.645000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	1.210000	0.289000	0.289000	0.041700				

## WOODWARD-CLYDE CONSULTANTS

## ROCKY MOUNTAIN ARSENAL PROGRAM

## SUMMARY OF VOLATILE ORGANIC COMPOUND CONCENTRATIONS

ALL UNITS ARE IN UG/M3

FIELD		SITE ID	111TCE		112TCE		11DCLE		12DCLE		12DCLE		BOCPD		C6H6		CCL4		CH2CL2		CHCL3	
SAMPLE DATE	SAMPLE NUMBER		RESULTS		RESULTS		RESULTS		RESULTS		RESULTS		RESULTS		RESULTS		RESULTS		RESULTS		RESULTS	
08/28/91	15A	CFC1C	1.050000		LT 0.125000		LT 0.041700		LT 0.041700		LT 0.041700		LT 0.041700		1.090000		0.300000		2.150000		LT 0.041700	
08/28/91	26A	CFC2	0.338000		LT 0.125000		LT 0.041700		LT 0.041700		LT 0.041700		LT 0.041700		0.395000		LT 0.062500		7.640000		0.318000	
08/28/91	27A	CFC5	1.040000		LT 0.125000		LT 0.041700		LT 0.041700		LT 0.041700		LT 0.041700		0.973000		0.291000		0.588000		LT 0.041700	
08/28/91	28A	CQ11	1.220000		LT 0.125000		LT 0.041700		LT 0.041700		LT 0.041700		LT 0.041700		0.937000		0.310000		0.682000		LT 0.041700	
08/28/91	29A	CQ12	0.402000		LT 0.125000		LT 0.041700		LT 0.041700		LT 0.041700		LT 0.041700		0.411000		LT 0.062500		1.170000		LT 0.041700	
09/03/91	72B	CAQ2	0.770000		LT 0.125000		LT 0.041700		LT 0.041700		LT 0.041700		LT 0.041700		0.385000		0.206000		0.000000		0.050000	
09/03/91	72A	CAQ2	0.911000		LT 0.125000		LT 0.041700		LT 0.041700		LT 0.041700		LT 0.041700		1.130000		0.238000		0.000000		0.081300	
09/03/91	73A	CAQ3	0.734000		LT 0.125000		LT 0.041700		LT 0.041700		LT 0.041700		LT 0.041700		0.845000		0.297000		0.000000		0.043800	
09/03/91	74B	CAQ5	0.297000		LT 0.125000		LT 0.041700		LT 0.041700		LT 0.041700		LT 0.041700		0.209000		0.119000		0.000000		LT 0.041700	
09/03/91	74A	CAQ5	0.664000		LT 0.125000		LT 0.041700		LT 0.041700		LT 0.041700		LT 0.041700		1.360000		0.288000		0.000000		0.071800	
09/03/91	76A	CFC1	1.250000		LT 0.125000		LT 0.041700		LT 0.041700		LT 0.041700		LT 0.041700		1.040000		0.380000		0.000000		0.093300	
09/03/91	77A	CFC1C	1.280000		LT 0.125000		LT 0.041700		LT 0.041700		LT 0.041700		LT 0.041700		1.000000		0.393000		0.000000		0.077900	
09/03/91	78A	CFC5	1.170000		LT 0.125000		LT 0.041700		LT 0.041700		LT 0.041700		LT 0.041700		0.917000		0.324000		0.000000		0.092800	
09/03/91	75A	CQ11	0.959000		LT 0.125000		LT 0.041700		LT 0.041700		LT 0.041700		LT 0.041700		0.584000		0.305000		0.581000		0.088700	
09/08/91	80A	CAQ2	1.320000		LT 0.125000		LT 0.041700		LT 0.041700		LT 0.041700		LT 0.041700		0.944000		0.554000		2.040000		0.226000	
09/08/91	81A	CAQ3	0.836000		LT 0.125000		LT 0.041700		LT 0.041700		LT 0.041700		LT 0.041700		0.468000		0.399000		0.000000		0.064800	
09/08/91	82A	CAQ5	1.620000		LT 0.125000		LT 0.041700		LT 0.041700		LT 0.041700		LT 0.041700		1.400000		0.339000		0.000000		0.080100	
09/08/91	82B	CAQ5	0.679000		LT 0.125000		LT 0.041700		LT 0.041700		LT 0.041700		LT 0.041700		0.142000		0.171000		0.659000		LT 0.041700	
09/08/91	83A	CFC1	0.810000		LT 0.125000		LT 0.041700		LT 0.041700		LT 0.041700		LT 0.041700		0.641000		0.393000		0.431000		0.528000	
09/08/91	84A	CFC1C	0.811000		LT 0.125000		LT 0.041700		LT 0.041700		LT 0.041700		LT 0.041700		0.661000		0.395000		0.406000		0.451000	
09/08/91	88A	CFC2	0.859000		LT 0.125000		LT 0.041700		LT 0.041700		LT 0.041700		LT 0.041700		0.595000		0.392000		0.000000		0.625000	
09/08/91	85A	CFC5	0.717000		LT 0.125000		LT 0.041700		LT 0.041700		LT 0.041700		LT 0.041700		0.613000		0.330000		0.360000		0.507000	
09/08/91	86A	CQ11	0.410000		LT 0.125000		LT 0.041700		LT 0.041700		LT 0.041700		LT 0.041700		0.390000		0.267000		0.000000		0.060700	
09/08/91	86B	CQ11	0.472000		LT 0.125000		LT 0.041700		LT 0.041700		LT 0.041700		LT 0.041700		0.146000		0.249000		0.000000		0.171000	
09/08/91	87A	CQ12	0.855000		LT 0.125000		LT 0.041700		LT 0.041700		LT 0.041700		LT 0.041700		0.643000		0.405000		0.000000		0.089100	
09/14/91	67A	CAQ2	0.721000		LT 0.125000		LT 0.041700		LT 0.041700		LT 0.041700		LT 0.041700		0.565000		0.490000		0.000000		0.054100	
09/14/91	67B	CAQ2	0.309000		LT 0.125000		LT 0.041700		LT 0.041700		LT 0.041700		LT 0.041700		0.172000		0.180000		0.000000		LT 0.041700	
09/14/91	68A	CAQ3	0.580000		LT 0.125000		LT 0.041700		LT 0.041700		LT 0.041700		LT 0.041700		0.325000		0.369000		2.470000		0.050900	
09/14/91	69A	CAQ5	1.120000		LT 0.125000		LT 0.041700		LT 0.041700		LT 0.041700		LT 0.041700		0.527000		0.548000		0.000000		0.054100	
09/14/91	105A	CFC1	0.699000		LT 0.125000		LT 0.041700		LT 0.041700		LT 0.041700		LT 0.041700		0.453000		0.488000		0.986000		0.117000	
09/14/91	90A	CFC1C	0.764000		LT 0.125000		LT 0.041700		LT 0.041700		LT 0.041700		LT 0.041700		0.426000		0.493000		0.000000		0.128000	

## WOODWARD-CLYDE CONSULTANTS

## ROCKY MOUNTAIN ARSENAL PROGRAM

## SUMMARY OF VOLATILE ORGANIC COMPOUND CONCENTRATIONS

ALL UNITS ARE IN UG/M3

FIELD		SITE ID	111TCE		112TCE		11DCLE		12DCE		12DCLE		BOHPD		C6H6		CCL4		CH2CL2		CHCL3	
SAMPLE DATE	SAMPLE NUMBER		RESULTS		RESULTS		RESULTS		RESULTS		RESULTS		RESULTS		RESULTS		RESULTS		RESULTS		RESULTS	
09/14/91	91A	CFC2	0.663000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.368000		0.420000		0.000000		0.351000	
09/14/91	91B	CFC2	0.181000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.076400		0.102000		0.000000		0.177000	
09/14/91	92A	CFC5	0.563000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.249000		0.363000		0.000000		0.181000	
09/14/91	70A	CO11	0.577000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.267000		0.362000		0.394000		0.065100	
09/14/91	71A	CO12	0.375000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.061500		0.190000		1.230000		0.044900	
09/21/91	95A	CAQ2	0.941000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	1.810000		0.345000		0.000000		0.080100	
09/21/91	95B	CAQ2	0.450000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.318000		0.135000		0.000000		0.041700	
09/21/91	96A	CAQ3	1.060000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	1.100000		0.348000		0.000000		0.078700	
09/21/91	97A	CAQ5	1.390000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	1.920000		0.394000		0.000000		0.068400	
09/21/91	98A	CFC1	0.911000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	1.430000		0.356000		0.000000		0.123000	
09/21/91	99A	CFC1C	0.079900	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.055600	LT	0.062500		0.000000		0.041700	
09/21/91	100A	CFC2	1.540000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	2.540000		0.578000		0.000000		0.833000	
09/21/91	101A	CFC3	0.668000	LT	0.125000	LT	0.041700	LT	0.327000	LT	0.041700	LT	0.041700	LT	1.590000		0.322000		0.000000		0.070000	
09/21/91	102A	CFC4	1.040000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	1.520000		0.381000		0.000000		0.090100	
09/21/91	103A	CFC5	0.997000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	1.400000		0.354000		0.000000		0.097300	
09/21/91	94B	CO12	0.587000	LT	0.125000	LT	0.041700	LT	0.130000	LT	0.041700	LT	0.041700	LT	0.413000		0.245000		0.000000	GT	0.331000	
09/21/91	104A	CO11	1.120000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	1.290000		0.359000		0.000000		0.126000	
09/21/91	94A	CO12	1.060000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	1.300000		0.351000		0.000000		0.069200	
09/27/91	107A	CAQ2	2.640000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	3.470000	GT	0.473000		0.358000	ND	0.581000	
09/27/91	107B	CAQ2	0.832000	LT	0.125000	LT	0.041700	LT	0.219000	LT	0.041700	LT	0.041700	LT	0.245000		0.227000		0.645000	ND	0.196000	
09/27/91	108A	CAQ3	0.370000	LT	0.125000	LT	0.041700	LT	0.416000	LT	0.041700	LT	0.041700	LT	0.804000		0.316000		0.356000	ND	0.123000	
09/27/91	109A	CAQ5	2.820000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	2.660000		0.326000		0.342000	ND	0.173000	
09/27/91	112A	CFC1	2.250000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	2.590000		0.396000		0.360000	ND	0.626000	
09/27/91	113A	CFC1C	0.899000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.798000		0.148000		0.361000	ND	0.295000	
09/27/91	114A	CFC2	2.510000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.096400		3.210000		0.432000		0.360000	ND	2.150000	
09/27/91	115A	CFC5	1.930000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	2.540000		0.317000		0.355000	ND	0.525000	
09/27/91	110A	CO11	2.220000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	3.200000		0.284000		0.342000	ND	0.562000	
09/27/91	110B	CO11	0.445000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.170000		0.071200		0.486000	ND	0.044500	
09/27/91	111A	CO12	3.070000	LT	0.125000	LT	0.041700	LT	0.041700	LT	0.041700	LT	0.041700	LT	3.090000		0.465000		0.364000	ND	0.596000	



## WOODWARD-CLYDE CONSULTANTS

## ROCKY MOUNTAIN ARSENAL PROGRAM

## SUMMARY OF VOLATILE ORGANIC COMPOUND CONCENTRATIONS

ALL UNITS ARE IN UG/M3

FIELD		SITE ID	CLCHGHS	DBCP	DCPD	DMDS	ETC6HS	MEC6HS	MIBK	TCLEE	TRCLE	XYLENE
SAMPLE DATE	SAMPLE NUMBER											
			RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS
01/24/91	1A	CAQ2	LT 0.045100	0.000000	LT 0.309000	LT 0.163000	1.270000	GT 3.470000	LT 0.556000	1.140000	0.108000	5.810000
01/24/91	2A	CAQ3	LT 0.045100	0.000000	LT 0.309000	LT 0.163000	0.436000	3.530000	LT 0.556000	0.481000	0.085500	2.000000
01/24/91	3A	CAQ5	LT 0.045100	0.000000	LT 0.309000	LT 0.163000	0.961000	GT 3.470000	LT 0.556000	1.450000	0.087400	3.790000
01/24/91	3B	CAQ5	LT 0.045100	0.000000	LT 0.309000	LT 0.163000	0.961000	0.254000	LT 0.556000	LT 0.045100	LT 0.045100	4.600000
01/24/91	4A	CFC1	LT 0.045100	0.000000	LT 0.309000	LT 0.163000	0.976000	1.480000	LT 0.556000	0.287000	0.052600	4.740000
01/24/91	6A	CFC3	LT 0.045100	0.000000	LT 0.309000	LT 0.163000	LT 0.111000	1.760000	LT 0.556000	0.493000	0.081900	LT 0.517000
01/24/91	7A	CFC4	LT 0.045100	0.000000	LT 0.309000	LT 0.163000	0.160000	1.550000	LT 0.556000	0.369000	0.065500	0.742000
01/24/91	8A	CFC5	LT 0.045100	0.000000	LT 0.309000	LT 0.163000	0.917000	2.810000	LT 0.556000	0.700000	0.073400	4.210000
01/30/91	10A	CAQ2	LT 0.045100	0.000000	LT 0.309000	LT 0.163000	0.759000	2.550000	LT 0.556000	0.490000	0.137000	3.520000
01/30/91	11A	CAQ3	LT 0.045100	0.000000	LT 0.309000	LT 0.163000	0.580000	GT 3.470000	LT 0.556000	0.639000	0.103000	2.570000
01/30/91	12A	CAQ5	LT 0.045100	0.000000	LT 0.309000	LT 0.163000	0.623000	GT 3.470000	LT 0.556000	1.480000	0.093200	2.700000
01/30/91	12B	CAQ5	LT 0.045100	0.000000	LT 0.309000	LT 0.163000	LT 0.111000	0.131000	LT 0.556000	LT 0.045100	LT 0.045100	0.592000
01/30/91	13A	CFC1	LT 0.045100	0.000000	LT 0.309000	LT 0.163000	LT 0.111000	2.880000	LT 0.556000	0.768000	0.121000	LT 0.517000
01/30/91	14A	CFC1C	LT 0.045100	0.000000	LT 0.309000	LT 0.163000	1.360000	2.130000	LT 0.556000	0.336000	0.079800	6.240000
01/30/91	15A	CFC3	LT 0.045100	0.000000	LT 0.309000	LT 0.163000	LT 0.111000	0.680000	LT 0.556000	0.498000	0.127000	LT 0.517000
01/30/91	16A	CFC4	LT 0.045100	0.000000	LT 0.309000	LT 0.163000	0.689000	1.520000	LT 0.556000	0.446000	0.106000	3.100000
01/30/91	17A	CFC5	LT 0.045100	0.000000	LT 0.309000	LT 0.163000	0.526000	GT 3.470000	LT 0.556000	0.837000	0.120000	2.480000
02/05/91	19B	CAQ2	LT 0.045100	0.000000	LT 0.309000	LT 0.163000	0.336000	0.519000	LT 0.556000	LT 0.045100	LT 0.045100	1.560000
02/05/91	19A	CAQ2	LT 0.045100	0.000000	LT 0.309000	LT 0.163000	0.560000	GT 3.470000	LT 0.556000	1.210000	0.061500	2.480000
02/05/91	20A	CAQ3	LT 0.045100	0.000000	LT 0.309000	LT 0.163000	0.239000	1.930000	LT 0.556000	0.466000	LT 0.045100	1.180000
02/05/91	22A	CFC1	LT 0.045100	0.000000	LT 0.309000	LT 0.163000	0.462000	2.270000	LT 0.556000	0.586000	LT 0.045100	2.270000
02/05/91	23A	CFC1C	LT 0.045100	0.000000	LT 0.309000	LT 0.163000	0.479000	1.400000	LT 0.556000	0.736000	LT 0.045100	2.310000
02/05/91	24A	CFC3	LT 0.045100	0.000000	LT 0.309000	LT 0.163000	0.541000	1.760000	LT 0.556000	0.823000	LT 0.045100	2.620000
02/05/91	25A	CFC4	LT 0.045100	0.000000	LT 0.309000	LT 0.163000	LT 0.111000	0.169000	LT 0.556000	0.155000	LT 0.045100	LT 0.517000
02/05/91	26A	CFC5	LT 0.045100	0.000000	LT 0.309000	LT 0.163000	0.141000	2.250000	LT 0.556000	1.090000	LT 0.045100	0.592000
02/11/91	28A	CAQ2	LT 0.045100	0.000000	LT 0.309000	LT 0.163000	LT 0.111000	0.488000	LT 0.556000	0.470000	LT 0.045100	LT 0.517000
02/11/91	29A	CAQ3	LT 0.045100	0.000000	LT 0.309000	LT 0.163000	LT 0.111000	3.130000	LT 0.556000	0.755000	LT 0.045100	LT 0.517000
02/11/91	30A	CAQ5	LT 0.045100	0.000000	LT 0.309000	LT 0.163000	0.753000	1.470000	LT 0.556000	0.376000	LT 0.045100	3.690000
02/11/91	31A	CFC1	LT 0.045100	0.000000	LT 0.309000	LT 0.163000	LT 0.111000	0.488000	LT 0.556000	0.674000	LT 0.045100	LT 0.517000
02/11/91	32B	CFC1C	LT 0.045100	0.000000	LT 0.309000	LT 0.163000	LT 0.111000	LT 0.048600	LT 0.556000	LT 0.045100	LT 0.045100	LT 0.517000
02/11/91	32A	CFC1C	LT 0.045100	0.000000	LT 0.309000	LT 0.163000	0.400000	GT 3.470000	LT 0.556000	0.446000	LT 0.045100	1.960000

## WOODWARD-CLYDE CONSULTANTS

## ROCKY MOUNTAIN ARSENAL PROGRAM

## SUMMARY OF VOLATILE ORGANIC COMPOUND CONCENTRATIONS

ALL UNITS ARE IN UC/M3

FIELD		SITE ID	CLCH6HS		DSCP	DCPD		DMDS	ETC6HS		MEC6HS		MIBK	TCL6E		TRCLE		XYLENE	
SAMPLE DATE	SAMPLE NUMBER		RESULTS			RESULTS			RESULTS		RESULTS			RESULTS		RESULTS		RESULTS	
02/11/91	33A	CFC3	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	0.306000		GT 3.470000		LT 0.556000	0.484000		LT 0.045100		1.460000	
02/17/91	37A	CA02	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	0.231000		2.080000		LT 0.556000	0.313000		LT 0.045100		1.030000	
02/17/91	38A	CA03	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	LT 0.111000		0.806000		LT 0.556000	0.102000		LT 0.045100		LT 0.517000	
02/17/91	39A	CA05	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	0.258000		2.190000		LT 0.556000	0.495000		LT 0.045100		1.080000	
02/17/91	40A	CFC1	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	0.141000		0.825000		LT 0.556000	0.133000		LT 0.045100		0.752000	
02/17/91	41A	CFC1C	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	0.523000		GT 3.470000		LT 0.556000	0.657000		0.054800		2.410000	
02/17/91	42A	CFC3	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	0.542000		GT 3.470000		LT 0.556000	0.712000		0.060400		2.560000	
02/17/91	42B	CFC3	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	LT 0.111000		LT 0.048600		LT 0.556000	LT 0.045100		LT 0.045100		LT 0.517000	
02/17/91	43A	CFC4	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	0.231000		2.120000		LT 0.556000	0.382000		LT 0.045100		0.989000	
02/17/91	44A	CFC5	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	0.301000		2.490000		LT 0.556000	0.389000		0.053700		1.300000	
02/23/91	54A	CA02	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	LT 0.111000		0.284000		LT 0.556000	0.126000		0.059700		0.517000	
02/23/91	45A	CA02	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	0.763000		GT 3.470000		LT 0.556000	1.280000		0.114000		3.400000	
02/23/91	46A	CA03	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	0.316000		3.110000		LT 0.556000	0.493000		0.051800		1.250000	
02/23/91	55A	CA03	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	0.486000		GT 3.470000		LT 0.556000	0.253000		0.063200		2.020000	
02/23/91	47B	CA05	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	LT 0.111000		0.200000		LT 0.556000	LT 0.045100		LT 0.045100		LT 0.517000	
02/23/91	47A	CA05	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	0.190000		1.970000		LT 0.556000	0.453000		0.073400		0.844000	
02/23/91	48A	CFC1	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	0.628000		GT 3.470000		LT 0.556000	1.110000		0.096100		2.400000	
02/23/91	49A	CFC1C	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	0.226000		GT 3.470000		LT 0.556000	0.779000		0.098600		0.811000	
02/23/91	50A	CFC3	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	0.420000		GT 3.470000		LT 0.556000	1.080000		0.099300		1.410000	
02/23/91	51A	CFC4	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	LT 0.111000		1.420000		LT 0.556000	0.571000		0.093000		LT 0.517000	
02/23/91	52A	CFC5	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	1.050000		1.900000		LT 0.556000	0.398000		0.093000		4.400000	
03/01/91	56A	CA05	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	LT 0.111000		0.671000		LT 0.556000	0.609000		0.099700		0.517000	
03/01/91	57A	CFC1	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	0.476000		GT 3.470000		LT 0.556000	0.209000		0.072200		2.220000	
03/01/91	58A	CFC2	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	0.269000		GT 3.470000		LT 0.556000	0.750000		0.077400		1.200000	
03/01/91	59A	CFC3	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	LT 0.111000		0.195000		LT 0.556000	0.275000		0.064200		0.517000	
03/01/91	60A	CFC4	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	0.141000		GT 3.470000		LT 0.556000	0.735000		0.071800		0.662000	
03/01/91	60B	CFC4	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	LT 0.111000		0.114000		LT 0.556000	LT 0.045100		LT 0.045100		0.517000	
03/01/91	61A	CFC5	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	0.396000		2.280000		LT 0.556000	0.375000		0.087500		1.970000	
03/07/91	63A	CA02	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	LT 0.111000		0.057600		LT 0.556000	0.055900		LT 0.045100		0.517000	
03/07/91	64A	CA03	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	0.143000		0.976000		LT 0.556000	0.092000		LT 0.045100		0.642000	
03/07/91	66A	CFC1	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	0.218000		1.910000		LT 0.556000	0.067000		LT 0.045100		1.090000	

## WOODWARD-CLYDE CONSULTANTS

## ROCKY MOUNTAIN ARSENAL PROGRAM

## SUMMARY OF VOLATILE ORGANIC COMPOUND CONCENTRATIONS

ALL UNITS ARE IN UC/M3

FIELD		SAMPLE DATE	SAMPLE NUMBER	SITE ID	CLCHGHS		DBCP	DCPD		DMDS	ETC6H5		MEC6H5	MIBK		TCLEE		TRCLE		XYLENE	
					RESULTS		RESULTS	RESULTS		RESULTS	RESULTS		RESULTS	RESULTS		RESULTS		RESULTS		RESULTS	
03/07/91	66B			CFC1	LT 0.045100	0.000000		LT 0.309000		LT 0.163000	LT 0.111000		LT 0.048600	LT 0.556000		LT 0.045100		LT 0.045100		LT 0.517000	
03/07/91	67A			CFC1C	LT 0.045100	0.000000		LT 0.309000		LT 0.163000	LT 0.111000		0.909000	LT 0.556000		LT 0.045100		LT 0.045100		LT 0.517000	
03/07/91	68A			CFC2	LT 0.045100	0.000000		LT 0.309000		LT 0.163000	LT 0.111000		0.057600	LT 0.556000		LT 0.045100		LT 0.045100		LT 0.517000	
03/07/91	69A			CFC3	LT 0.045100	0.000000		LT 0.309000		LT 0.163000	LT 0.111000		LT 0.048600	LT 0.556000		LT 0.045100		LT 0.045100		LT 0.517000	
03/07/91	71A			CFC5	LT 0.045100	0.000000		LT 0.309000		LT 0.163000	LT 0.111000		0.747000	LT 0.556000		0.148000		LT 0.045100		LT 0.517000	
03/13/91	73B			CAQ2	LT 0.045100	0.000000		LT 0.309000		LT 0.163000	LT 0.111000		LT 0.048600	LT 0.556000		LT 0.045100		LT 0.045100		LT 0.517000	
03/13/91	73A			CAQ2	LT 0.045100	0.000000		LT 0.309000		LT 0.163000	0.424000		2.810000	LT 0.556000		0.625000		LT 0.045100		1.960000	
03/13/91	74A			CAQ3	LT 0.045100	0.000000		LT 0.309000		LT 0.163000	0.267000		1.860000	LT 0.556000		0.354000		LT 0.045100		1.170000	
03/13/91	75A			CAQ5	LT 0.045100	0.000000		LT 0.309000		LT 0.163000	0.378000		2.610000	LT 0.556000		0.559000		LT 0.045100		1.670000	
03/13/91	76A			CFC1	LT 0.045100	0.000000		LT 0.309000		LT 0.163000	0.338000		2.370000	LT 0.556000		0.458000		LT 0.045100		1.470000	
03/13/91	77A			CFC1C	LT 0.045100	0.000000		LT 0.309000		LT 0.163000	0.333000		2.320000	LT 0.556000		0.449000		LT 0.045100		1.540000	
03/13/91	78A			CFC2	LT 0.045100	0.000000		LT 0.309000		LT 0.163000	0.343000		2.360000	LT 0.556000		0.493000		LT 0.045100		1.600000	
03/13/91	79A			CFC3	LT 0.045100	0.000000		LT 0.309000		LT 0.163000	0.240000		2.140000	LT 0.556000		0.410000		LT 0.045100		0.972000	
03/13/91	80A			CFC4	LT 0.045100	0.000000		LT 0.309000		LT 0.163000	LT 0.111000		LT 0.048600	LT 0.556000		LT 0.045100		LT 0.045100		LT 0.517000	
03/13/91	81A			CFC5	LT 0.045100	0.000000		LT 0.309000		LT 0.163000	LT 0.111000		2.270000	LT 0.556000		0.510000		LT 0.045100		LT 0.517000	
03/19/91	83B			CAQ2	LT 0.045100	0.000000		LT 0.309000		LT 0.163000	LT 0.111000		LT 0.048600	LT 0.556000		LT 0.045100		LT 0.045100		LT 0.517000	
03/19/91	83A			CAQ2	LT 0.045100	0.000000		LT 0.309000		LT 0.163000	0.524000		3.480000	LT 0.556000		0.417000		LT 0.045100		2.450000	
03/19/91	84A			CAQ3	LT 0.045100	0.000000		LT 0.309000		LT 0.163000	0.185000		1.470000	LT 0.556000		0.245000		LT 0.045100		0.795000	
03/19/91	85B			CAQ5	LT 0.045100	0.000000		LT 0.309000		LT 0.163000	LT 0.111000		LT 0.048600	LT 0.556000		LT 0.045100		LT 0.045100		LT 0.517000	
03/19/91	85A			CAQ5	LT 0.045100	0.000000		LT 0.309000		LT 0.163000	0.393000		2.810000	LT 0.556000		0.386000		LT 0.045100		1.920000	
03/19/91	86A			CFC1	LT 0.045100	0.000000		LT 0.309000		LT 0.163000	LT 0.111000		1.850000	LT 0.556000		0.329000		LT 0.045100		LT 0.517000	
03/19/91	87A			CFC1C	LT 0.045100	0.000000		LT 0.309000		LT 0.163000	0.261000		2.150000	LT 0.556000		0.352000		LT 0.045100		1.130000	
03/19/91	88A			CFC2	LT 0.045100	0.000000		LT 0.309000		LT 0.163000	0.297000		2.090000	LT 0.556000		0.341000		LT 0.045100		1.380000	
03/19/91	89A			CFC3	LT 0.045100	0.000000		LT 0.309000		LT 0.163000	0.282000		1.940000	LT 0.556000		0.289000		LT 0.045100		1.290000	
03/19/91	90A			CFC4	LT 0.045100	0.000000		LT 0.309000		LT 0.163000	LT 0.111000		0.122000	LT 0.556000		LT 0.045100		LT 0.045100		LT 0.517000	
03/19/91	91A			CFC5	LT 0.045100	0.000000		LT 0.309000		LT 0.163000	0.251000		2.010000	LT 0.556000		0.332000		LT 0.045100		1.100000	
03/25/91	93A			CAQ2	LT 0.045100	0.000000		LT 0.309000		LT 0.163000	0.419000		GT 3.470000	LT 0.556000		0.433000		LT 0.045100		2.190000	
03/25/91	93B			CAQ2	LT 0.045100	0.000000		LT 0.309000		LT 0.163000	LT 0.111000		LT 0.048600	LT 0.556000		LT 0.045100		LT 0.045100		LT 0.517000	
03/25/91	94A			CAQ3	LT 0.045100	0.000000		LT 0.309000		LT 0.163000	0.194000		2.250000	LT 0.556000		0.352000		LT 0.045100		0.916000	
03/25/91	95A			CAQ5	LT 0.045100	0.000000		LT 0.309000		LT 0.163000	LT 0.111000		3.700000	LT 0.556000		0.585000		LT 0.045100		LT 0.517000	
03/25/91	98A			CFC2	LT 0.045100	0.000000		LT 0.309000		LT 0.163000	0.325000		2.360000	LT 0.556000		0.387000		LT 0.045100		1.780000	

# ROCKY MOUNTAIN ARSENAL PROGRAM

ALL UNITS ARE IN UG/M3

FIELD		SITE ID	CLCHHS RESULTS	DBCP RESULTS	DCPD RESULTS	DMDS RESULTS	ETCHHS RESULTS	MECHHS RESULTS	MIHK RESULTS	TCLEE RESULTS	TRCLE RESULTS	XYLENE RESULTS
SAMPLE DATE	SAMPLE NUMBER											
03/25/91	99A	CFC3	LT 0.045100	0.000000	LT 0.309000	LT 0.163000	0.306000	2.320000	LT 0.556000	0.370000	LT 0.045100	1.630000
	101A	CFC5	LT 0.045100	0.000000	LT 0.309000	LT 0.163000	0.335000	2.420000	LT 0.556000	0.431000	0.058700	1.700000
	103A	CA02	LT 0.045100	0.000000	LT 0.309000	LT 0.163000	0.360000	1.950000	LT 0.556000	0.309000	LT 0.045100	1.680000
	104A	CA03	LT 0.045100	0.000000	LT 0.309000	LT 0.163000	0.218000	1.170000	LT 0.556000	0.169000	LT 0.045100	1.030000
	105A	CA05	LT 0.045100	0.000000	LT 0.309000	LT 0.163000	0.347000	2.650000	LT 0.556000	0.337000	LT 0.045100	1.690000
	106A	CFC1	LT 0.045100	0.000000	LT 0.309000	LT 0.163000	0.272000	1.500000	LT 0.556000	0.241000	LT 0.045100	1.300000
	107A	CFC1C	LT 0.045100	0.000000	LT 0.309000	LT 0.163000	0.365000	2.270000	LT 0.556000	0.368000	LT 0.045100	1.610000
	108A	CFC2	LT 0.045100	0.000000	LT 0.309000	LT 0.163000	0.257000	1.420000	LT 0.556000	0.255000	LT 0.045100	1.210000
	109A	CFC5	LT 0.045100	0.000000	LT 0.309000	LT 0.163000	0.251000	1.430000	LT 0.556000	0.242000	LT 0.045100	1.230000
	110A	CQ11	LT 0.045100	0.000000	LT 0.309000	LT 0.163000	0.630000	GT 3.470000	LT 0.556000	0.746000	LT 0.045100	2.270000
	110B	CQ11	LT 0.045100	0.000000	LT 0.309000	LT 0.163000	LT 0.111000	LT 0.111000	0.171000	LT 0.556000	LT 0.045100	LT 0.517000
	111A	CQ12	LT 0.045100	0.000000	LT 0.309000	LT 0.163000	0.802000	GT 3.470000	LT 0.556000	0.854000	0.050000	3.650000
	111B	CQ12	LT 0.045100	0.000000	LT 0.309000	LT 0.163000	LT 0.111000	LT 0.111000	0.486000	LT 0.556000	LT 0.045100	LT 0.517000
	113A	CA02	LT 0.045100	0.000000	LT 0.309000	LT 0.163000	0.413000	0.413000	2.820000	LT 0.556000	0.333000	LT 0.045100
	114A	CA03	LT 0.045100	0.000000	LT 0.309000	LT 0.163000	0.326000	0.441000	2.070000	LT 0.556000	0.317000	LT 0.045100
	115A	CA05	LT 0.045100	0.000000	LT 0.309000	LT 0.163000	0.398000	0.461000	2.780000	LT 0.556000	0.388000	LT 0.045100
	116A	CFC1	LT 0.045100	0.000000	LT 0.309000	LT 0.163000	0.461000	GT 3.470000	2.530000	LT 0.556000	0.419000	LT 0.045100
	117A	CFC1C	LT 0.045100	0.000000	LT 0.309000	LT 0.163000	0.413000	0.413000	GT 3.470000	LT 0.556000	0.718000	LT 0.045100
	118A	CFC2	LT 0.045100	0.000000	LT 0.309000	LT 0.163000	0.152000	0.152000	3.240000	LT 0.556000	0.498000	LT 0.045100
	119A	CFC5	LT 0.045100	0.000000	LT 0.309000	LT 0.163000	0.861000	0.861000	0.905000	LT 0.556000	0.154000	0.054400
	120A	CQ11	LT 0.045100	0.000000	LT 0.309000	LT 0.163000	0.111000	0.111000	GT 3.470000	LT 0.556000	0.957000	0.772000
	120B	CQ11	LT 0.045100	0.000000	LT 0.309000	LT 0.163000	LT 0.111000	LT 0.111000	LT 0.486000	LT 0.556000	LT 0.045100	LT 0.517000
	121A	CQ12	LT 0.045100	0.000000	LT 0.309000	LT 0.163000	1.090000	1.090000	GT 3.470000	LT 0.556000	1.230000	LT 0.045100
	121B	CQ12	LT 0.045100	0.000000	LT 0.309000	LT 0.163000	LT 0.111000	LT 0.111000	LT 0.486000	LT 0.556000	LT 0.045100	LT 0.517000
	123A	CA02	LT 0.045100	0.000000	LT 0.309000	LT 0.163000	0.261000	0.261000	2.100000	LT 0.556000	0.194000	LT 0.045100
124A	CA03	LT 0.045100	0.000000	LT 0.309000	LT 0.163000	LT 0.111000	LT 0.111000	0.919000	LT 0.556000	0.119000	LT 0.045100	
125A	CA05	LT 0.045100	0.000000	LT 0.309000	LT 0.163000	0.188000	0.188000	1.420000	LT 0.556000	0.143000	LT 0.045100	
126A	CFC1	LT 0.045100	0.000000	0.000000	LT 0.309000	LT 0.163000	LT 0.111000	1.050000	LT 0.556000	0.189000	LT 0.045100	
127A	CFC1C	LT 0.045100	0.000000	0.000000	LT 0.309000	LT 0.163000	0.220000	1.890000	LT 0.556000	0.311000	LT 0.045100	
128A	CFC2	LT 0.045100	0.000000	0.000000	LT 0.309000	LT 0.163000	0.128000	1.060000	LT 0.556000	0.177000	LT 0.045100	
129A	CFC5	LT 0.045100	0.000000	0.000000	LT 0.309000	LT 0.163000	0.123000	1.060000	LT 0.556000	0.194000	LT 0.045100	

WOODWARD-CLYDE CONSULTANTS

ROCKY MOUNTAIN ARSENAL PROGRAM

SUMMARY OF VOLATILE ORGANIC COMPOUND CONCENTRATIONS

ALL UNITS ARE IN UG/M3

FIELD SAMPLE DATE	SITE ID	CLCHHS		DBCP	DCPD		DMDS		ETCHHS		MECHHS		MIBK		TCLEE		TRCLE		XYLENE	
		RESULTS		RESULTS	RESULTS		RESULTS		RESULTS		RESULTS		RESULTS		RESULTS		RESULTS		RESULTS	
04/12/91 130A	CQ11	LT 0.045100		0.000000	LT 0.309000		LT 0.163000		0.250000		2.120000		LT 0.556000		0.366000		LT 0.045100		0.959000	
04/12/91 130B	CQ11	LT 0.045100		0.000000	LT 0.309000		LT 0.163000		LT 0.111000		LT 0.048600		LT 0.556000		LT 0.045100		LT 0.045100		LT 0.517000	
04/12/91 131A	CQ12	0.057800		0.000000	LT 0.309000		LT 0.163000		0.289000		2.580000		LT 0.556000		0.477000		LT 0.045100		1.180000	
04/12/91 131B	CQ12	LT 0.045100		0.000000	LT 0.309000		LT 0.163000		LT 0.111000		LT 0.048600		LT 0.556000		LT 0.045100		LT 0.045100		LT 0.517000	
04/18/91 133A	CAQ2	LT 0.045100		0.000000	LT 0.309000		LT 0.163000		LT 0.111000		0.612000		LT 0.556000		0.083800		LT 0.045100		LT 0.517000	
04/18/91 134A	CAQ3	LT 0.045100		0.000000	LT 0.309000		LT 0.163000		LT 0.111000		0.774000		LT 0.556000		0.144000		LT 0.045100		LT 0.517000	
04/18/91 135A	CAQ5	LT 0.045100		0.000000	LT 0.309000		LT 0.163000		LT 0.111000		0.822000		LT 0.556000		0.173000		LT 0.045100		LT 0.517000	
04/18/91 136A	CFC1	LT 0.045100		0.000000	LT 0.309000		LT 0.163000		LT 0.111000		0.732000		LT 0.556000		0.149000		LT 0.045100		LT 0.517000	
04/18/91 137A	CFC1C	0.057000		0.000000	LT 0.309000		LT 0.163000		0.129000		1.180000		LT 0.556000		0.242000		LT 0.045100		LT 0.517000	
04/18/91 138A	CFC2	LT 0.045100		0.000000	LT 0.309000		LT 0.163000		LT 0.111000		0.603000		LT 0.556000		0.128000		LT 0.045100		LT 0.517000	
04/18/91 139A	CFC5	LT 0.045100		0.000000	LT 0.309000		LT 0.163000		LT 0.111000		0.831000		LT 0.556000		0.180000		LT 0.045100		LT 0.517000	
04/18/91 140A	CQ11	0.081900		0.000000	LT 0.309000		LT 0.163000		0.193000		1.900000		LT 0.556000		0.397000		LT 0.045100		0.400000	
04/18/91 140B	CQ11	LT 0.045100		0.000000	LT 0.309000		LT 0.163000		LT 0.111000		LT 0.048600		LT 0.556000		LT 0.045100		LT 0.045100		LT 0.517000	
04/18/91 141A	CQ12	0.092300		0.000000	LT 0.309000		LT 0.163000		0.250000		2.250000		LT 0.556000		0.435000		LT 0.045100		1.160000	
04/18/91 141B	CQ12	LT 0.045100		0.000000	LT 0.309000		LT 0.163000		LT 0.111000		LT 0.048600		LT 0.556000		LT 0.045100		LT 0.045100		LT 0.517000	
04/24/91 143A	CAQ2	LT 0.045100		0.000000	LT 0.309000		LT 0.163000		0.341000		2.220000		LT 0.556000		0.323000		LT 0.045100		1.610000	
04/24/91 144A	CAQ3	LT 0.045100		0.000000	LT 0.309000		LT 0.163000		0.184000		1.350000		LT 0.556000		0.213000		LT 0.045100		0.855000	
04/24/91 145A	CAQ5	LT 0.045100		0.000000	LT 0.309000		LT 0.163000		0.340000		0.447000		LT 0.556000		0.078800		LT 0.045100		1.530000	
04/24/91 145B	CAQ5	LT 0.045100		0.000000	LT 0.309000		LT 0.163000		LT 0.111000		0.072000		LT 0.556000		LT 0.045100		LT 0.045100		LT 0.517000	
04/24/91 146A	CFC1	LT 0.045100		0.000000	LT 0.309000		LT 0.163000		0.262000		1.840000		LT 0.556000		0.341000		LT 0.045100		1.160000	
04/24/91 147A	CFC1C	LT 0.045100		0.000000	LT 0.309000		LT 0.163000		0.339000		2.200000		LT 0.556000		0.425000		LT 0.045100		1.520000	
04/24/91 148A	CFC2	LT 0.045100		0.000000	LT 0.309000		LT 0.163000		0.234000		1.660000		LT 0.556000		0.301000		LT 0.045100		1.130000	
04/24/91 149A	CFC5	LT 0.045100		0.000000	LT 0.309000		LT 0.163000		0.210000		1.520000		LT 0.556000		0.264000		LT 0.045100		1.080000	
04/24/91 150B	CQ11	LT 0.045100		0.000000	LT 0.309000		LT 0.163000		LT 0.111000		LT 0.048600		LT 0.556000		LT 0.045100		LT 0.045100		LT 0.517000	
04/24/91 150A	CQ11	LT 0.045100		0.000000	LT 0.309000		LT 0.163000		0.489000		3.420000		LT 0.556000		0.595000		LT 0.045100		2.460000	
04/30/91 153A	CAQ2	LT 0.045100		0.000000	LT 0.309000		LT 0.163000		LT 0.111000		0.916000		LT 0.556000		0.148000		LT 0.045100		LT 0.517000	
04/30/91 154A	CAQ3	LT 0.045100		0.000000	LT 0.309000		LT 0.163000		LT 0.111000		0.533000		LT 0.556000		0.111000		LT 0.045100		LT 0.517000	
04/30/91 155A	CAQ5	LT 0.045100		0.000000	LT 0.309000		LT 0.163000		LT 0.111000		0.913000		LT 0.556000		0.181000		LT 0.045100		LT 0.517000	
04/30/91 156A	CFC1	LT 0.045100		0.000000	LT 0.309000		LT 0.163000		LT 0.111000		0.140000		LT 0.556000		LT 0.045100		LT 0.045100		LT 0.517000	
04/30/91 157A	CFC1C	LT 0.045100		0.000000	LT 0.309000		LT 0.163000		LT 0.111000		1.230000		LT 0.556000		0.217000		LT 0.045100		LT 0.517000	
04/30/91 157B	CFC1C	LT 0.045100		0.000000	LT 0.309000		LT 0.163000		LT 0.111000		LT 0.048600		LT 0.556000		LT 0.045100		LT 0.045100		LT 0.517000	

## WOODWARD-CLYDE CONSULTANTS

## ROCKY MOUNTAIN ARSENAL PROGRAM

## SUMMARY OF VOLATILE ORGANIC COMPOUND CONCENTRATIONS

ALL UNITS ARE IN UG/M3

FIELD		SAMPLE DATE	SAMPLE NUMBER	SITE ID	CLCH6HS		DBCP RESULTS	DCPD		DMDS RESULTS	ETC6HS		MEC6HS RESULTS	MIBK		TCLEE RESULTS	TRCLE		XYLENE RESULTS
					RESULTS			RESULTS			RESULTS			RESULTS			RESULTS		
		04/30/91	158A	CFC2	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	LT 0.111000		0.252000	LT 0.556000		LT 0.045100	LT 0.045100	LT 0.517000	
		04/30/91	159A	CFC3	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	LT 0.111000	LT	0.048600	LT 0.556000		LT 0.045100	LT 0.045100	LT 0.517000	
		04/30/91	160A	CFC4	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	LT 0.111000		0.645000	LT 0.556000		0.123000	LT 0.045100	LT 0.517000	
		04/30/91	161A	CFC5	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	LT 0.111000		0.799000	LT 0.556000		0.147000	LT 0.045100	LT 0.517000	
		04/30/91	162A	CQ11	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	LT 0.111000		0.129000	LT 0.556000		LT 0.045100	LT 0.045100	LT 0.517000	
		04/30/91	163B	CQ12	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	LT 0.111000	LT	0.048600	LT 0.556000		LT 0.045100	LT 0.045100	LT 0.517000	
		04/30/91	163A	CQ12	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	0.202000		1.780000	LT 0.556000		0.296000	LT 0.045100	0.811000	
		05/06/91	165A	CA02	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	0.200000		2.730000	LT 0.556000		0.238000	LT 0.045100	0.855000	
		05/06/91	166A	CA03	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	LT 0.111000		0.823000	LT 0.556000		0.103000	LT 0.045100	LT 0.517000	
		05/06/91	167A	CA05	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	0.145000		1.990000	LT 0.556000		0.218000	LT 0.045100	0.566000	
		05/06/91	167B	CA05	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	LT 0.111000		LT 0.048600	LT 0.556000		LT 0.045100	LT 0.517000		
		05/06/91	168A	CFC1	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	0.133000		1.300000	LT 0.556000		0.130000	LT 0.045100	0.623000	
		05/06/91	169A	CFC1C	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	LT 0.111000		0.353000	LT 0.556000		LT 0.045100	LT 0.517000		
		05/06/91	170A	CFC2	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	0.221000		3.490000	LT 0.556000		0.316000	LT 0.045100	0.900000	
		05/06/91	170B	CFC2	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	LT 0.111000		LT 0.048600	LT 0.556000		LT 0.045100	LT 0.517000		
		05/06/91	171A	CFC5	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	0.201000		1.850000	LT 0.556000		0.194000	LT 0.045100	0.879000	
		05/06/91	172A	CQ11	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	LT 0.111000		0.904000	LT 0.556000		0.117000	LT 0.045100	LT 0.517000	
		05/06/91	174A	CQ12	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	0.235000		2.230000	LT 0.556000		0.217000	LT 0.045100	1.130000	
		05/12/91	176A	CA02	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	0.142000		1.190000	LT 0.556000		0.140000	LT 0.045100	0.654000	
		05/12/91	177A	CA03	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	LT 0.111000		0.438000	LT 0.556000		0.079300	LT 0.045100	LT 0.517000	
		05/12/91	178B	CA05	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	LT 0.111000		LT 0.048600	LT 0.556000		LT 0.045100	LT 0.517000		
		05/12/91	178A	CA05	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	0.204000		1.500000	LT 0.556000		0.243000	LT 0.045100	1.100000	
		05/12/91	179A	CFC1	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	LT 0.111000		0.910000	LT 0.556000		0.175000	LT 0.045100	0.587000	
		05/12/91	180A	CFC1C	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	LT 0.111000		1.140000	LT 0.556000		0.167000	LT 0.045100	LT 0.517000	
		05/12/91	181B	CFC2	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	LT 0.111000		0.312000	LT 0.556000		0.067100	LT 0.045100	LT 0.517000	
		05/12/91	181A	CFC2	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	LT 0.111000	LT	0.048600	LT 0.556000		LT 0.045100	LT 0.517000		
		05/12/91	182A	CFC5	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	LT 0.111000		0.653000	LT 0.556000		0.113000	LT 0.045100	LT 0.517000	
		05/12/91	183A	CQ11	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	LT 0.111000		0.743000	LT 0.556000		0.113000	LT 0.045100	LT 0.517000	
		05/12/91	194A	CQ12	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	LT 0.111000		0.627000	LT 0.556000		0.101000	LT 0.045100	LT 0.517000	
		05/18/91	196A	CA02	0.057300		0.000000	LT 0.309000		LT 0.163000	LT 0.111000		0.636000	LT 0.556000		0.071700	LT 0.045100	LT 0.517000	
		05/18/91	197A	CA03	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	LT 0.111000		0.165000	LT 0.556000		0.057600	LT 0.045100	LT 0.517000	

## WOODWARD-CLYDE CONSULTANTS

## ROCKY MOUNTAIN ARSENAL PROGRAM

## SUMMARY OF VOLATILE ORGANIC COMPOUND CONCENTRATIONS

ALL UNITS ARE IN UC/M3

FIELD		SITE ID	CLOH6HS	DBCP	DCPD	DMDS	ETC6HS	MEC6HS	MIBK	TCLEE	TRCLE	XYLENE
SAMPLE DATE	SAMPLE NUMBER											
			RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS
05/18/91	198A	CA05	LT 0.045100	0.000000	LT 0.309000	LT 0.163000	0.186000	0.408000	LT 0.556000	0.059900	LT 0.045100	LT 0.517000
05/18/91	198B	CA05	LT 0.045100	0.000000	LT 0.309000	LT 0.163000	LT 0.111000	LT 0.048600	LT 0.556000	LT 0.045100	LT 0.045100	LT 0.517000
05/18/91	199A	CFC1	0.060700	0.000000	LT 0.309000	LT 0.163000	LT 0.111000	0.199000	LT 0.556000	0.056100	LT 0.045100	LT 0.517000
05/18/91	200A	CFC1C	0.064600	0.000000	LT 0.309000	LT 0.163000	LT 0.111000	0.182000	LT 0.556000	0.068800	LT 0.045100	LT 0.517000
05/18/91	201A	CFC2	0.058900	0.000000	LT 0.309000	LT 0.163000	LT 0.111000	0.181000	LT 0.556000	0.078200	LT 0.045100	LT 0.517000
05/18/91	202A	CFC5	0.051800	0.000000	LT 0.309000	LT 0.163000	LT 0.111000	0.219000	LT 0.556000	0.098900	LT 0.045100	LT 0.517000
05/18/91	203A	CO11	LT 0.045100	0.000000	LT 0.309000	LT 0.163000	LT 0.111000	0.143000	LT 0.556000	0.060800	LT 0.045100	LT 0.517000
05/18/91	204A	CO12	LT 0.045100	0.000000	LT 0.309000	LT 0.163000	LT 0.111000	0.166000	LT 0.556000	0.074400	LT 0.045100	LT 0.517000
05/24/91	207B	CA02	LT 0.045100	0.000000	LT 0.309000	LT 0.163000	LT 0.111000	LT 0.048600	LT 0.556000	LT 0.045100	LT 0.045100	LT 0.517000
05/24/91	207A	CA02	LT 0.045100	0.000000	LT 0.309000	LT 0.163000	0.938000	GT 3.470000	LT 0.556000	0.983000	LT 0.045100	5.870000
05/24/91	208A	CA03	LT 0.045100	0.000000	LT 0.309000	LT 0.163000	0.175000	3.310000	LT 0.556000	0.493000	LT 0.045100	0.720000
05/24/91	209A	CA05	LT 0.045100	0.000000	LT 0.309000	LT 0.163000	0.389000	GT 3.470000	LT 0.556000	0.726000	LT 0.045100	2.050000
05/24/91	209B	CA05	LT 0.045100	0.000000	LT 0.309000	LT 0.163000	LT 0.111000	LT 0.048600	LT 0.556000	LT 0.045100	LT 0.045100	LT 0.517000
05/24/91	210A	CFC1	LT 0.045100	0.000000	LT 0.309000	LT 0.163000	0.389000	GT 3.470000	LT 0.556000	0.516000	LT 0.045100	2.170000
05/24/91	211A	CFC1C	LT 0.045100	0.000000	LT 0.309000	LT 0.163000	0.551000	GT 3.470000	LT 0.556000	0.582000	LT 0.045100	3.820000
05/24/91	212A	CFC2	LT 0.045100	0.000000	LT 0.309000	LT 0.163000	0.173000	3.130000	LT 0.556000	0.537000	LT 0.045100	0.746000
05/24/91	213A	CFC3	LT 0.045100	0.000000	LT 0.309000	LT 0.163000	0.218000	3.390000	LT 0.556000	0.542000	LT 0.045100	1.130000
05/24/91	214A	CFC4	LT 0.045100	0.000000	LT 0.309000	LT 0.163000	0.601000	GT 3.470000	LT 0.556000	0.594000	LT 0.045100	3.880000
05/24/91	215A	CFC5	LT 0.045100	0.000000	LT 0.309000	LT 0.163000	0.434000	3.110000	LT 0.556000	0.427000	LT 0.045100	2.570000
05/24/91	216A	CO11	LT 0.045100	0.000000	LT 0.309000	LT 0.163000	LT 0.111000	LT 0.048600	LT 0.556000	LT 0.045100	LT 0.045100	LT 0.517000
05/24/91	217A	CO12	LT 0.045100	0.000000	LT 0.309000	LT 0.163000	0.511000	3.330000	LT 0.556000	0.558000	LT 0.045100	3.380000
05/30/91	219A	CA02	LT 0.045100	0.000000	LT 0.309000	LT 0.163000	0.748000	GT 3.470000	LT 0.556000	1.400000	LT 0.045100	3.640000
05/30/91	219B	CA02	LT 0.045100	0.000000	LT 0.309000	LT 0.163000	LT 0.111000	LT 0.048600	LT 0.556000	LT 0.045100	LT 0.045100	LT 0.517000
05/30/91	220A	CA03	LT 0.045100	0.000000	LT 0.309000	LT 0.163000	0.420000	3.710000	LT 0.556000	0.752000	LT 0.045100	1.950000
05/30/91	221A	CA05	LT 0.045100	0.000000	LT 0.309000	LT 0.163000	0.568000	GT 3.470000	LT 0.556000	0.892000	LT 0.045100	2.770000
05/30/91	222A	CFC1	LT 0.045100	0.000000	LT 0.309000	LT 0.163000	0.142000	1.420000	LT 0.556000	0.302000	LT 0.045100	0.758000
05/30/91	223A	CFC1C	LT 0.045100	0.000000	LT 0.309000	LT 0.163000	0.474000	GT 3.470000	LT 0.556000	1.020000	LT 0.045100	2.330000
05/30/91	224A	CFC2	LT 0.045100	0.000000	LT 0.309000	LT 0.163000	0.467000	GT 3.470000	LT 0.556000	0.945000	LT 0.045100	2.260000
05/30/91	225A	CFC5	LT 0.045100	0.000000	LT 0.309000	LT 0.163000	0.386000	3.480000	LT 0.556000	0.731000	LT 0.045100	1.940000
05/30/91	226A	CO11	LT 0.045100	0.000000	LT 0.309000	LT 0.163000	LT 0.111000	0.671000	LT 0.556000	0.131000	LT 0.045100	LT 0.517000
05/30/91	227A	CO12	LT 0.045100	0.000000	LT 0.309000	LT 0.163000	0.371000	3.740000	LT 0.556000	0.773000	LT 0.045100	2.020000

## WOODWARD-CLYDE CONSULTANTS

## ROCKY MOUNTAIN ARSENAL PROGRAM

## SUMMARY OF VOLATILE ORGANIC COMPOUND CONCENTRATIONS

ALL UNITS ARE IN UG/M3

FIELD		SITE ID	CLCH6HS		DCPD	DMDS		ETC6HS		MEC6HS		MIBK		TCLEE		TRCLE		XYLENE	
SAMPLE DATE	SAMPLE NUMBER		RESULTS		RESULTS	RESULTS		RESULTS		RESULTS		RESULTS		RESULTS		RESULTS		RESULTS	
05/31/91	221B	CA05	LT 0.045100		0.000000	LT 0.309000	LT 0.163000	LT 0.111000		LT 0.048600		LT 0.556000		LT 0.045100		LT 0.045100		LT 0.517000	
06/05/91	229A	CA02	LT 0.045100		0.000000	LT 0.309000	LT 0.163000	0.457000		GT 3.470000		LT 0.556000		1.060000		LT 0.045100		1.700000	
06/05/91	229B	CA02	LT 0.045100		0.000000	LT 0.309000	LT 0.163000	LT 0.111000		LT 0.048600		LT 0.556000		LT 0.045100		LT 0.045100		LT 0.517000	
06/05/91	230A	CA03	LT 0.045100		0.000000	LT 0.309000	LT 0.163000	0.286000		2.180000		LT 0.556000		0.408000		LT 0.045100		1.310000	
06/05/91	231B	CA05	LT 0.045100		0.000000	LT 0.309000	LT 0.163000	LT 0.111000		0.082000		LT 0.556000		LT 0.045100		LT 0.045100		LT 0.517000	
06/05/91	231A	CA05	LT 0.045100		0.000000	LT 0.309000	LT 0.163000	0.466000		3.470000		LT 0.556000		0.582000		LT 0.045100		2.240000	
06/05/91	232A	CFC1	LT 0.045100		0.000000	LT 0.309000	LT 0.163000	0.317000		2.750000		LT 0.556000		0.595000		LT 0.045100		1.350000	
06/05/91	233A	CFC1C	LT 0.045100		0.000000	LT 0.309000	LT 0.163000	0.378000		2.990000		LT 0.556000		0.636000		LT 0.045100		1.760000	
06/05/91	234A	CFC2	LT 0.045100		0.000000	LT 0.309000	LT 0.163000	0.260000		2.640000		LT 0.556000		0.521000		LT 0.045100		1.020000	
06/05/91	235A	CFC5	LT 0.045100		0.000000	LT 0.309000	LT 0.163000	0.276000		2.540000		LT 0.556000		0.552000		LT 0.045100		1.100000	
06/05/91	236A	CO11	LT 0.045100		0.000000	LT 0.309000	LT 0.163000	0.322000		2.680000		LT 0.556000		0.493000		LT 0.045100		1.510000	
06/11/91	239A	CA02	LT 0.045100		0.000000	LT 0.309000	LT 0.163000	LT 0.111000		1.000000		LT 0.556000		LT 0.045100		LT 0.045100		LT 0.517000	
06/11/91	240A	CA03	LT 0.045100		0.000000	LT 0.309000	LT 0.163000	LT 0.111000		0.533000		LT 0.556000		0.089500		LT 0.045100		LT 0.517000	
06/11/91	241B	CA05	LT 0.045100		0.000000	LT 0.309000	LT 0.163000	LT 0.111000		LT 0.048600		LT 0.556000		LT 0.045100		LT 0.045100		LT 0.517000	
06/11/91	241A	CA05	LT 0.045100		0.000000	LT 0.309000	LT 0.163000	0.555000		GT 3.470000		LT 0.556000		0.548000		LT 0.045100		2.820000	
06/11/91	242A	CFC1	LT 0.045100		0.000000	LT 0.309000	LT 0.163000	0.343000		2.600000		LT 0.556000		0.540000		LT 0.045100		1.680000	
06/11/91	243A	CFC1C	LT 0.045100		0.000000	LT 0.309000	LT 0.163000	0.375000		2.630000		LT 0.556000		0.581000		LT 0.045100		1.610000	
06/11/91	244A	CFC2	LT 0.045100		0.000000	LT 0.309000	LT 0.163000	0.332000		2.890000		LT 0.556000		0.661000		LT 0.045100		1.640000	
06/11/91	244B	CFC2	LT 0.045100		0.000000	LT 0.309000	LT 0.163000	LT 0.111000		0.070900		LT 0.556000		LT 0.045100		LT 0.045100		LT 0.517000	
06/11/91	245A	CFC5	LT 0.045100		0.000000	LT 0.309000	LT 0.163000	0.310000		2.470000		LT 0.556000		0.534000		LT 0.045100		1.490000	
06/11/91	246A	CO11	LT 0.045100		0.000000	LT 0.309000	LT 0.163000	0.347000		2.610000		LT 0.556000		0.512000		LT 0.045100		1.710000	
06/11/91	247A	CO12	LT 0.045100		0.000000	LT 0.309000	LT 0.163000	LT 0.111000		0.420000		LT 0.556000		0.091900		LT 0.045100		LT 0.517000	
06/13/91	249B	CA01	LT 0.045100		0.000000	LT 0.309000	LT 0.163000	LT 0.111000		0.080900		LT 0.556000		LT 0.045100		LT 0.045100		LT 0.517000	
06/13/91	249A	CA01	LT 0.045100		0.000000	LT 0.309000	LT 0.163000	0.904000		GT 3.470000		LT 0.556000		1.150000		LT 0.045100		4.780000	
06/13/91	250A	CA03	LT 0.045100		0.000000	LT 0.309000	LT 0.163000	0.331000		2.050000		LT 0.556000		0.405000		LT 0.045100		1.640000	
06/13/91	251A	CA04	LT 0.045100		0.000000	LT 0.309000	LT 0.163000	0.385000		2.280000		LT 0.556000		0.396000		LT 0.045100		1.620000	
06/13/91	252A	CA05	LT 0.045100		0.000000	LT 0.309000	LT 0.163000	0.140000		1.150000		LT 0.556000		0.237000		LT 0.045100		0.656000	
06/13/91	253A	CFC1	LT 0.045100		0.000000	LT 0.309000	LT 0.163000	0.355000		2.180000		LT 0.556000		0.617000		LT 0.045100		1.800000	
06/13/91	254A	CFC1C	LT 0.045100		0.000000	LT 0.309000	LT 0.163000	0.417000		1.640000		LT 0.556000		0.614000		LT 0.045100		2.000000	
06/13/91	255A	CFC2	LT 0.045100		0.000000	LT 0.309000	LT 0.163000	0.315000		1.430000		LT 0.556000		0.497000		LT 0.045100		1.750000	
06/13/91	256A	CFC3	LT 0.045100		0.000000	LT 0.309000	LT 0.163000	0.293000		1.940000		LT 0.556000		0.408000		LT 0.045100		1.410000	



## WOODWARD-CLYDE CONSULTANTS

## ROCKY MOUNTAIN ARSENAL PROGRAM

## SUMMARY OF VOLATILE ORGANIC COMPOUND CONCENTRATIONS

ALL UNITS ARE IN UG/M3

FIELD		SITE ID	CLCHHS		DBCP	DCPD		DMDS		ETCHHS		MECHHS		MIBK		TCLEE		TRCLE		XYLENE	
SAMPLE DATE	SAMPLE NUMBER		RESULTS		RESULTS	RESULTS		RESULTS		RESULTS		RESULTS		RESULTS		RESULTS		RESULTS		RESULTS	
06/13/91	257A	CFC5	LT 0.045100		0.000000	LT 0.309000		LT 0.163000		0.488000		3.390000		LT 0.556000		0.643000		LT 0.045100		2.480000	
06/13/91	257B	CFC5	LT 0.045100		0.000000	LT 0.309000		LT 0.163000		LT 0.111000		LT 0.048600		LT 0.556000		LT 0.045100		LT 0.045100		LT 0.517000	
06/17/91	259A	CAQ2	LT 0.045100		0.000000	LT 0.309000		LT 0.163000		0.622000		GT 3.470000		LT 0.556000		0.733000		LT 0.045100		2.890000	
06/17/91	259B	CAQ2	LT 0.045100		0.000000	LT 0.309000		LT 0.163000		LT 0.111000		0.120000		LT 0.556000		LT 0.045100		LT 0.045100		LT 0.517000	
06/17/91	260A	CAQ3	LT 0.045100		0.000000	LT 0.309000		LT 0.163000		0.365000		2.720000		LT 0.556000		0.496000		LT 0.045100		1.930000	
06/17/91	261A	CAQ5	LT 0.045100		0.000000	LT 0.309000		LT 0.163000		LT 0.111000		0.700000		LT 0.556000		0.188000		LT 0.045100		LT 0.517000	
06/17/91	262A	CFC1	LT 0.045100		0.000000	LT 0.309000		LT 0.163000		0.423000		3.070000		LT 0.556000		0.577000		LT 0.045100		2.000000	
06/17/91	263A	CFC1C	LT 0.045100		0.000000	LT 0.309000		LT 0.163000		0.433000		3.460000		LT 0.556000		0.669000		LT 0.045100		2.130000	
06/17/91	264A	CFC2	LT 0.045100		0.000000	LT 0.309000		LT 0.163000		0.433000		3.550000		LT 0.556000		0.773000		LT 0.045100		2.060000	
06/17/91	265A	CFC3	LT 0.045100		0.000000	LT 0.309000		LT 0.163000		0.386000		3.090000		LT 0.556000		0.554000		LT 0.045100		2.030000	
06/17/91	266A	CFC4	LT 0.045100		0.000000	LT 0.309000		LT 0.163000		LT 0.111000		0.565000		LT 0.556000		0.097200		LT 0.045100		LT 0.517000	
06/17/91	267A	CFC5	LT 0.045100		0.000000	LT 0.309000		LT 0.163000		0.401000		2.990000		LT 0.556000		0.567000		LT 0.045100		2.040000	
06/17/91	268A	CQ11	LT 0.045100		0.000000	LT 0.309000		LT 0.163000		0.416000		3.510000		LT 0.556000		0.662000		LT 0.045100		2.080000	
06/17/91	269A	CQ12	LT 0.045100		0.000000	LT 0.309000		LT 0.163000		0.341000		3.000000		LT 0.556000		0.598000		LT 0.045100		1.800000	
06/19/91	273A	CFC1C	LT 0.045100		0.000000	LT 0.309000		LT 0.163000		0.203000		1.150000		LT 0.556000		0.212000		LT 0.045100		0.888000	
06/21/91	277A	CAQ1	LT 0.045100		0.000000	LT 0.309000		LT 0.163000		0.666000		3.470000		LT 0.556000		0.310000		LT 0.045100		3.040000	
06/21/91	277B	CAQ1	LT 0.045100		0.000000	LT 0.309000		LT 0.163000		LT 0.111000		LT 0.048600		LT 0.556000		LT 0.045100		LT 0.045100		LT 0.517000	
06/21/91	278A	CAQ3	LT 0.045100		0.000000	LT 0.309000		LT 0.163000		0.116000		1.010000		LT 0.556000		0.071000		LT 0.045100		0.566000	
06/21/91	280A	CAQ5	LT 0.045100		0.000000	LT 0.309000		LT 0.163000		0.395000		2.550000		LT 0.556000		0.292000		LT 0.045100		1.680000	
06/21/91	281A	CFC2	LT 0.045100		0.000000	LT 0.309000		LT 0.163000		LT 0.111000		LT 0.048600		LT 0.556000		LT 0.045100		LT 0.045100		LT 0.517000	
06/21/91	282A	CQ11	LT 0.045100		0.000000	LT 0.309000		LT 0.163000		0.138000		1.350000		LT 0.556000		0.123000		LT 0.045100		0.803000	
06/21/91	283A	CQ12	LT 0.045100		0.000000	LT 0.309000		LT 0.163000		0.189000		1.650000		LT 0.556000		0.147000		LT 0.045100		1.020000	
06/23/91	287A	CAQ2	LT 0.045100		0.000000	LT 0.309000		LT 0.163000		0.190000		1.270000		LT 0.556000		0.133000		LT 0.045100		0.822000	
06/23/91	288A	CAQ3	LT 0.045100		0.000000	LT 0.309000		LT 0.163000		0.114000		0.808000		LT 0.556000		0.101000		LT 0.045100		LT 0.517000	
06/23/91	289A	CAQ5	LT 0.045100		0.000000	LT 0.309000		LT 0.163000		0.311000		2.020000		LT 0.556000		0.166000		LT 0.045100		1.400000	
06/23/91	289B	CAQ5	LT 0.045100		0.000000	LT 0.309000		LT 0.163000		LT 0.111000		LT 0.048600		LT 0.556000		LT 0.045100		LT 0.045100		LT 0.517000	
06/23/91	290A	CFC1	LT 0.045100		0.000000	LT 0.309000		LT 0.163000		0.161000		1.110000		LT 0.556000		0.152000		LT 0.045100		0.638000	
06/23/91	291A	CFC1C	LT 0.045100		0.000000	LT 0.309000		LT 0.163000		0.154000		1.530000		LT 0.556000		0.180000		LT 0.045100		0.628000	
06/23/91	291B	CFC1C	LT 0.045100		0.000000	LT 0.309000		LT 0.163000		LT 0.111000		LT 0.048600		LT 0.556000		LT 0.045100		LT 0.045100		LT 0.517000	
06/23/91	292A	CFC2	LT 0.045100		0.000000	LT 0.309000		LT 0.163000		0.121000		0.880000		LT 0.556000		0.119000		LT 0.045100		LT 0.517000	
06/23/91	293A	CFC5	LT 0.045100		0.000000	LT 0.309000		LT 0.163000		0.149000		1.060000		LT 0.556000		0.145000		LT 0.045100		0.668000	

## WOODWARD-CLYDE CONSULTANTS

## ROCKY MOUNTAIN ARSENAL PROGRAM

## SUMMARY OF VOLATILE ORGANIC COMPOUND CONCENTRATIONS

ALL UNITS ARE IN UG/M3

FIELD		SITE ID	CLO6H5		DBCP	DCPD		DNOS	ETC6H5		MEC6H5		MIBK		TCLEE		TRCLE		XYLENE	
SAMPLE DATE	SAMPLE NUMBER		RESULTS		RESULTS	RESULTS		RESULTS	RESULTS		RESULTS		RESULTS		RESULTS		RESULTS		RESULTS	
06/23/91	294A	CQ11	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	0.143000		0.586000		LT 0.556000		0.118000		LT 0.045100		0.569000	
06/23/91	295A	CQ12	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	0.135000		0.811000		LT 0.556000		LT 0.045100		LT 0.045100		0.635000	
06/29/91	307A	CAQ2	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	0.972000	GT	3.470000		LT 0.556000		0.888000		LT 0.045100		5.170000	
06/29/91	308A	CAQ3	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	0.567000	GT	3.470000		LT 0.556000		0.440000		LT 0.045100		2.760000	
06/29/91	309A	CAQ5	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	1.010000	GT	3.470000		LT 0.556000		0.762000		0.077300		5.240000	
06/29/91	309B	CAQ5	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	LT 0.111000		0.154000		LT 0.556000		LT 0.045100		LT 0.045100		LT 0.517000	
06/29/91	310B	CFC1	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	LT 0.111000		LT 0.048600		LT 0.556000		LT 0.045100		LT 0.045100		LT 0.517000	
06/29/91	310A	CFC1	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	0.694000		GT 3.470000		LT 0.556000		0.641000		LT 0.045100		3.590000	
06/29/91	311A	CFC1C	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	0.761000		GT 3.470000		LT 0.556000		0.563000		LT 0.045100		4.080000	
06/29/91	312A	CFC2	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	0.739000		GT 3.470000		LT 0.556000		0.694000		LT 0.045100		3.520000	
06/29/91	313A	CFC5	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	0.461000		3.100000		LT 0.556000		0.415000		LT 0.045100		2.220000	
06/29/91	314A	CQ11	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	0.560000		2.950000		LT 0.556000		0.372000		LT 0.045100		2.740000	
06/29/91	315A	CQ12	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	0.601000		GT 3.470000		LT 0.556000		0.464000		LT 0.045100		3.160000	
07/05/91	317A	CAQ2	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	0.365000		3.050000		LT 0.556000		0.860000		LT 0.045100		1.530000	
07/05/91	318A	CAQ3	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	0.213000		1.660000		LT 0.556000		0.353000		LT 0.045100		1.060000	
07/05/91	319B	CAQ5	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	LT 0.111000		LT 0.048600		LT 0.556000		LT 0.045100		LT 0.045100		LT 0.517000	
07/05/91	319A	CAQ5	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	0.410000		3.460000		LT 0.556000		0.386000		LT 0.045100		2.160000	
07/05/91	320A	CFC1	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	0.281000		2.700000		LT 0.556000		0.538000		LT 0.045100		1.400000	
07/05/91	321A	CFC1C	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	LT 0.111000		1.830000		LT 0.556000		0.380000		LT 0.045100		LT 0.517000	
07/05/91	322A	CFC2	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	LT 0.111000		0.777000		LT 0.556000		0.172000		LT 0.045100		0.524000	
07/05/91	323A	CFC5	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	LT 0.111000		0.825000		LT 0.556000		0.235000		LT 0.045100		LT 0.517000	
07/05/91	324A	CQ11	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	0.188000		2.460000		LT 0.556000		0.372000		LT 0.045100		1.480000	
07/05/91	324B	CQ11	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	LT 0.111000		LT 0.048600		LT 0.556000		LT 0.045100		LT 0.045100		LT 0.517000	
07/05/91	325A	CAQ2	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	LT 0.111000		LT 0.048600		LT 0.556000		LT 0.045100		LT 0.045100		LT 0.517000	
07/11/91	327A	CAQ2	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	0.129000		0.478000		LT 0.556000		0.133000		LT 0.045100		0.539000	
07/11/91	328A	CAQ3	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	0.285000		1.320000		LT 0.556000		0.251000		LT 0.045100		1.250000	
07/11/91	329A	CAQ5	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	0.768000	GT	3.470000		LT 0.556000		0.577000		LT 0.045100		3.120000	
07/11/91	330A	CFC1	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	LT 0.111000		0.118000		LT 0.556000		LT 0.045100		LT 0.045100		LT 0.517000	
07/11/91	331A	CFC1C	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	0.368000		3.400000		LT 0.556000		0.560000		LT 0.045100		1.770000	
07/11/91	331B	CFC1C	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	LT 0.111000		0.064300		LT 0.556000		LT 0.045100		LT 0.045100		LT 0.517000	
07/11/91	332A	CFC2	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	0.211000		1.820000		LT 0.556000		0.432000		LT 0.045100		0.884000	

## WOODWARD-CLYDE CONSULTANTS

## ROCKY MOUNTAIN ARSENAL PROGRAM

## SUMMARY OF VOLATILE ORGANIC COMPOUND CONCENTRATIONS

ALL UNITS ARE IN UG/M3

FIELD		SITE ID	CLCHGHS		DBCP	DCPD		DNDS		ETCGHS		MECGHS		MIBK		TCLEE		TRCLE		XYLENE	
SAMPLE DATE	SAMPLE NUMBER		RESULTS		RESULTS	RESULTS		RESULTS		RESULTS		RESULTS		RESULTS		RESULTS		RESULTS		RESULTS	
07/11/91	332B	CFC2	LT 0.045100		0.000000	LT 0.309000	LT 0.163000	LT 0.111000		LT 0.048600	LT 0.556000	LT 0.045100	LT 0.045100	LT 0.045100	LT 0.517000						
07/11/91	333A	CFC3	LT 0.045100		0.000000	LT 0.309000	LT 0.163000	0.136000		1.060000	LT 0.556000	LT 0.045100	LT 0.045100	LT 0.045100	0.562000						
07/11/91	334A	CFC4	LT 0.045100		0.000000	LT 0.309000	LT 0.163000	LT 0.111000		1.580000	LT 0.556000	LT 0.045100	LT 0.045100	LT 0.045100	0.517000						
07/11/91	335A	CFC5	LT 0.045100		0.000000	LT 0.309000	LT 0.163000	0.308000		2.060000	LT 0.556000	LT 0.045100	LT 0.045100	LT 0.045100	1.540000						
07/11/91	336A	CQ11	LT 0.045100		0.000000	LT 0.309000	LT 0.163000	LT 0.111000		0.287000	LT 0.556000	LT 0.045100	LT 0.045100	LT 0.045100	0.517000						
07/11/91	337A	CQ12	LT 0.045100		0.000000	LT 0.309000	LT 0.163000	LT 0.111000		LT 0.048600	LT 0.556000	LT 0.045100	LT 0.045100	LT 0.045100	0.517000						
07/17/91	339B	CAQ2	LT 0.045100		0.000000	LT 0.309000	LT 0.163000	LT 0.111000		LT 0.048600	LT 0.556000	LT 0.045100	LT 0.045100	LT 0.045100	0.517000						
07/17/91	339A	CAQ2	LT 0.045100		0.000000	LT 0.309000	LT 0.163000	1.000000		GT 3.470000	LT 0.556000	LT 0.045100	LT 0.045100	LT 0.045100	0.517000						
07/17/91	340A	CAQ3	LT 0.045100		0.000000	LT 0.309000	LT 0.163000	0.599000		GT 3.470000	LT 0.556000	LT 0.045100	LT 0.045100	LT 0.045100	6.100000						
07/17/91	341A	CAQ5	LT 0.045100		0.000000	LT 0.309000	LT 0.163000	0.466000		GT 3.470000	LT 0.556000	LT 0.045100	LT 0.045100	LT 0.045100	3.280000						
07/17/91	342B	CFC1	LT 0.045100		0.000000	LT 0.309000	LT 0.163000	LT 0.111000		LT 0.048600	LT 0.556000	LT 0.045100	LT 0.045100	LT 0.045100	2.780000						
07/17/91	342A	CFC1	LT 0.045100		0.000000	LT 0.309000	LT 0.163000	0.694000		GT 3.470000	LT 0.556000	LT 0.045100	LT 0.045100	LT 0.045100	0.517000						
07/17/91	343A	CFC1C	LT 0.045100		0.000000	LT 0.309000	LT 0.163000	0.371000		3.140000	LT 0.556000	LT 0.045100	LT 0.045100	LT 0.045100	4.080000						
07/17/91	344A	CFC2	LT 0.045100		0.000000	LT 0.309000	LT 0.163000	0.298000		2.650000	LT 0.556000	LT 0.045100	LT 0.045100	LT 0.045100	1.780000						
07/17/91	345A	CFC5	LT 0.045100		0.000000	LT 0.309000	LT 0.163000	0.172000		1.450000	LT 0.556000	LT 0.045100	LT 0.045100	LT 0.045100	1.730000						
07/17/91	346A	CQ11	LT 0.045100		0.000000	LT 0.309000	LT 0.163000	0.466000		GT 3.470000	LT 0.556000	LT 0.045100	LT 0.045100	LT 0.045100	0.942000						
07/17/91	347A	CQ12	LT 0.045100		0.000000	LT 0.309000	LT 0.163000	0.602000		GT 3.470000	LT 0.556000	LT 0.045100	LT 0.045100	LT 0.045100	2.700000						
07/23/91	349B	CAQ2	LT 0.045100		0.000000	LT 0.309000	LT 0.163000	LT 0.111000		LT 0.048600	LT 0.556000	LT 0.045100	LT 0.045100	LT 0.045100	3.310000						
07/23/91	349A	CAQ2	LT 0.045100		0.000000	LT 0.309000	LT 0.163000	0.265000		2.240000	LT 0.556000	LT 0.045100	LT 0.045100	LT 0.045100	0.517000						
07/23/91	350A	CAQ3	LT 0.045100		0.000000	LT 0.309000	LT 0.163000	0.146000		0.134000	LT 0.556000	LT 0.045100	LT 0.045100	LT 0.045100	1.440000						
07/23/91	351A	CAQ5	LT 0.045100		0.000000	LT 0.309000	LT 0.163000	0.117000		1.320000	LT 0.556000	LT 0.045100	LT 0.045100	LT 0.045100	0.672000						
07/23/91	351B	CAQ5	LT 0.045100		0.000000	LT 0.309000	LT 0.163000	LT 0.111000		LT 0.048600	LT 0.556000	LT 0.045100	LT 0.045100	LT 0.045100	0.517000						
07/23/91	352A	CFC1	LT 0.045100		0.000000	LT 0.309000	LT 0.163000	LT 0.111000		0.959000	LT 0.556000	LT 0.045100	LT 0.045100	LT 0.045100	0.517000						
07/23/91	353A	CFC1C	LT 0.045100		0.000000	LT 0.309000	LT 0.163000	LT 0.111000		0.871000	LT 0.556000	LT 0.045100	LT 0.045100	LT 0.045100	0.517000						
07/23/91	354A	CFC2	LT 0.045100		0.000000	LT 0.309000	LT 0.163000	LT 0.111000		0.724000	LT 0.556000	LT 0.045100	LT 0.045100	LT 0.045100	0.517000						
07/23/91	355A	CFC5	LT 0.045100		0.000000	LT 0.309000	LT 0.163000	LT 0.111000		0.639000	LT 0.556000	LT 0.045100	LT 0.045100	LT 0.045100	0.517000						
07/23/91	356A	CQ11	LT 0.045100		0.000000	LT 0.309000	LT 0.163000	LT 0.111000		0.627000	LT 0.556000	LT 0.045100	LT 0.045100	LT 0.045100	0.517000						
07/23/91	357A	CQ12	LT 0.045100		0.000000	LT 0.309000	LT 0.163000	LT 0.111000		0.514000	LT 0.556000	LT 0.045100	LT 0.045100	LT 0.045100	0.517000						
07/29/91	1B	CAQ2	LT 0.045100		0.000000	LT 0.309000	LT 0.163000	LT 0.111000		LT 0.048600	LT 0.556000	LT 0.045100	LT 0.045100	LT 0.045100	0.517000						
07/29/91	1A	CAQ2	LT 0.045100		0.000000	LT 0.309000	LT 0.163000	0.806000		GT 3.470000	LT 0.556000	LT 0.045100	LT 0.045100	LT 0.045100	3.960000						
07/29/91	2A	CAQ3	LT 0.045100		0.000000	LT 0.309000	LT 0.163000	0.396000		2.930000	LT 0.556000	LT 0.045100	LT 0.045100	LT 0.045100	1.910000						

## WOODWARD-CLYDE CONSULTANTS

## ROCKY MOUNTAIN ARSENAL PROGRAM

## SUMMARY OF VOLATILE ORGANIC COMPOUND CONCENTRATIONS

ALL UNITS ARE IN UG/M3

FIELD		SITE ID	CLCHGHS		DDBP	DCPD		DMDS	ETCHGHS		MECHGHS		MIBK	TCL		TRCLE		XYLENE	
SAMPLE DATE	SAMPLE NUMBER		RESULTS			RESULTS			RESULTS		RESULTS			RESULTS		RESULTS		RESULTS	
07/29/91	3A	CAQ5	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	0.552000		3.600000		LT 0.556000	1.060000		LT 0.045100		2.000000	
07/29/91	4A	CFC1	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	0.559000		GT 3.470000		LT 0.556000	0.941000		LT 0.045100		2.500000	
07/29/91	5B	CFC1C	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	LT 0.111000		0.133000		LT 0.556000	LT 0.045100		LT 0.045100		LT 0.517000	
07/29/91	5A	CFC1C	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	0.557000		GT 3.470000		LT 0.556000	1.240000		LT 0.045100		2.870000	
07/29/91	6A	CFC2	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	0.374000		2.990000		LT 0.556000	0.840000		LT 0.045100		1.740000	
07/29/91	7A	CFC5	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	0.503000		GT 3.470000		LT 0.556000	1.180000		0.071000		2.520000	
07/29/91	8A	CQ11	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	0.392000		2.820000		LT 0.556000	0.968000		LT 0.045100		2.000000	
07/29/91	9A	CQ12	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	0.463000		3.860000		LT 0.556000	1.020000		LT 0.045100		2.470000	
08/04/91	16A	CAQ2	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	0.474000		3.220000		LT 0.556000	0.260000		LT 0.045100		2.260000	
08/04/91	17A	CAQ3	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	0.268000		1.410000		LT 0.556000	0.089000		LT 0.045100		1.310000	
08/04/91	18A	CAQ5	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	0.333000		1.810000		LT 0.556000	0.147000		LT 0.045100		2.110000	
08/04/91	21A	CFC1	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	0.186000		0.979000		LT 0.556000	0.065600		LT 0.045100		1.710000	
08/04/91	22A	CFC1C	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	0.468000		2.760000		LT 0.556000	0.223000		LT 0.045100		2.230000	
08/04/91	22B	CFC1C	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	LT 0.111000		LT 0.048600		LT 0.556000	LT 0.045100		LT 0.045100		LT 0.517000	
08/04/91	23A	CFC2	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	0.304000		1.360000		LT 0.556000	0.091700		LT 0.045100		1.540000	
08/04/91	24A	CFC5	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	0.361000		1.320000		LT 0.556000	0.093200		LT 0.045100		4.160000	
08/04/91	19A	CQ11	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	LT 0.111000		0.372000		LT 0.556000	LT 0.045100		LT 0.045100		0.540000	
08/04/91	20B	CQ12	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	LT 0.111000		LT 0.048600		LT 0.556000	LT 0.045100		LT 0.045100		LT 0.517000	
08/04/91	20A	CQ12	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	0.393000		2.680000		LT 0.556000	0.223000		LT 0.045100		1.860000	
08/10/91	31A	CAQ2	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	LT 0.111000		0.392000		LT 0.556000	LT 0.045100		LT 0.045100		LT 0.517000	
08/10/91	32A	CAQ3	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	0.219000		2.330000		LT 0.556000	0.160000		LT 0.045100		1.100000	
08/10/91	33A	CAQ5	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	0.206000		2.340000		LT 0.556000	0.266000		LT 0.045100		1.040000	
08/10/91	36A	CFC1	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	LT 0.111000		1.410000		LT 0.556000	0.147000		LT 0.045100		LT 0.517000	
08/10/91	37A	CFC1C	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	0.436000		3.180000		LT 0.556000	0.292000		LT 0.045100		1.990000	
08/10/91	37B	CFC1C	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	LT 0.111000		LT 0.048600		LT 0.556000	LT 0.045100		LT 0.045100		LT 0.517000	
08/10/91	38A	CFC2	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	0.267000		2.940000		LT 0.556000	0.297000		LT 0.045100		1.390000	
08/10/91	39A	CFC5	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	0.255000		2.720000		LT 0.556000	0.262000		LT 0.045100		1.250000	
08/10/91	34B	CQ11	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	LT 0.111000		LT 0.048600		LT 0.556000	LT 0.045100		LT 0.045100		LT 0.517000	
08/10/91	34A	CQ11	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	0.311000		3.090000		LT 0.556000	0.280000		LT 0.045100		1.550000	
08/10/91	35A	CQ12	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	0.340000		3.340000		LT 0.556000	0.245000		LT 0.045100		1.790000	
08/16/91	41A	CAQ2	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	1.050000		GT 3.470000		LT 0.556000	1.320000		LT 0.045100		5.220000	

## WOODWARD-CLYDE CONSULTANTS

## ROCKY MOUNTAIN ARSENAL PROGRAM

## SUMMARY OF VOLATILE ORGANIC COMPOUND CONCENTRATIONS

ALL UNITS ARE IN UG/M3

FIELD		SITE ID	CLCHGHS RESULTS	DBCP RESULTS	DCPD RESULTS	DMDS RESULTS	ETCGHS RESULTS	MECGHS RESULTS	MIBK RESULTS	TCLEE RESULTS	TRCLE RESULTS	XYLENE RESULTS
SAMPLE DATE	SAMPLE NUMBER											
08/16/91	41B	CAQ2	LT 0.045100	0.000000	LT 0.309000	LT 0.163000	LT 0.111000	LT 0.048600	LT 0.556000	LT 0.045100	LT 0.045100	LT 0.517000
08/16/91	42A	CAQ3	LT 0.045100	0.000000	LT 0.309000	LT 0.163000	0.538000	GT 3.470000	LT 0.556000	0.717000	LT 0.045100	2.550000
08/16/91	43A	CAQ5	LT 0.045100	0.000000	LT 0.309000	LT 0.163000	0.653000	GT 3.470000	LT 0.556000	0.928000	LT 0.045100	3.370000
08/16/91	44A	CFC1	LT 0.045100	0.000000	LT 0.309000	LT 0.163000	0.443000	GT 3.470000	LT 0.556000	0.690000	LT 0.045100	2.070000
08/16/91	45A	CFC1C	LT 0.045100	0.000000	LT 0.309000	LT 0.163000	0.774000	GT 3.470000	LT 0.556000	0.792000	LT 0.045100	4.410000
08/16/91	46A	CFC2	LT 0.045100	0.000000	LT 0.309000	LT 0.163000	0.657000	GT 3.470000	LT 0.556000	0.730000	LT 0.045100	3.310000
08/16/91	47A	CFC3	LT 0.045100	0.000000	LT 0.309000	LT 0.163000	0.512000	4.480000	LT 0.556000	0.540000	LT 0.045100	2.540000
08/16/91	48A	CFC4	LT 0.045100	0.000000	LT 0.309000	LT 0.163000	1.380000	GT 3.470000	LT 0.556000	1.210000	LT 0.045100	6.980000
08/16/91	48B	CFC4	LT 0.045100	0.000000	LT 0.309000	LT 0.163000	LT 0.111000	LT 0.048600	LT 0.556000	LT 0.045100	LT 0.045100	LT 0.517000
08/16/91	49A	CFC5	LT 0.045100	0.000000	LT 0.309000	LT 0.163000	0.736000	GT 3.470000	LT 0.556000	0.840000	LT 0.045100	3.750000
08/16/91	50A	CQ11	LT 0.045100	0.000000	LT 0.309000	LT 0.163000	0.709000	GT 3.470000	LT 0.556000	0.593000	LT 0.045100	3.510000
08/16/91	51A	CQ12	LT 0.045100	0.000000	LT 0.309000	LT 0.163000	0.680000	GT 3.470000	LT 0.556000	0.751000	LT 0.045100	3.470000
08/22/91	53B	CAQ2	LT 0.045100	0.000000	LT 0.309000	LT 0.163000	LT 0.111000	LT 0.048600	LT 0.556000	LT 0.045100	LT 0.045100	LT 0.517000
08/22/91	53A	CAQ2	LT 0.045100	0.000000	LT 0.309000	LT 0.163000	1.120000	GT 3.470000	LT 0.556000	1.310000	LT 0.045100	4.780000
08/22/91	58A	CAQ3	LT 0.045100	0.000000	LT 0.309000	LT 0.163000	0.268000	2.880000	LT 0.556000	0.727000	LT 0.045100	1.300000
08/22/91	55A	CAQ5	LT 0.045100	0.000000	LT 0.309000	LT 0.163000	1.070000	GT 3.470000	LT 0.556000	1.520000	LT 0.045100	5.190000
08/22/91	56A	CFC1	LT 0.045100	0.000000	LT 0.309000	LT 0.163000	0.146000	0.948000	LT 0.556000	0.314000	LT 0.045100	0.690000
08/22/91	57A	CFC1C	LT 0.045100	0.000000	LT 0.309000	LT 0.163000	0.855000	GT 3.470000	LT 0.556000	1.560000	LT 0.045100	3.720000
08/22/91	54A	CFC2	LT 0.045100	0.000000	LT 0.309000	LT 0.163000	0.063400	0.432000	LT 0.556000	0.114000	LT 0.045100	0.261000
08/22/91	59A	CFC5	LT 0.045100	0.000000	LT 0.309000	LT 0.163000	0.707000	GT 3.470000	LT 0.556000	2.290000	0.056600	3.480000
08/22/91	60A	CQ11	LT 0.045100	0.000000	LT 0.309000	LT 0.163000	0.507000	GT 3.470000	LT 0.556000	1.310000	LT 0.045100	2.520000
08/22/91	61A	CQ12	LT 0.045100	0.000000	LT 0.309000	LT 0.163000	0.923000	GT 3.470000	LT 0.556000	1.830000	LT 0.045100	5.210000
08/22/91	61B	CQ12	LT 0.045100	0.000000	LT 0.309000	LT 0.163000	LT 0.111000	0.125000	LT 0.556000	LT 0.045100	LT 0.045100	LT 0.517000
08/27/91	63A	CAQ2	LT 0.045100	0.000000	LT 0.309000	LT 0.163000	0.154000	0.624000	LT 0.556000	0.194000	LT 0.045100	0.760000
08/27/91	64A	CAQ3	LT 0.045100	0.000000	LT 0.309000	LT 0.163000	0.577000	GT 3.470000	LT 0.556000	0.768000	LT 0.045100	2.640000
08/27/91	65A	CAQ5	LT 0.045100	0.000000	LT 0.309000	LT 0.163000	0.227000	2.510000	LT 0.556000	0.830000	LT 0.045100	0.981000
08/28/91	11A	CAQ2	LT 0.045100	0.000000	LT 0.309000	LT 0.163000	0.561000	GT 3.470000	LT 0.556000	1.470000	LT 0.045100	2.920000
08/28/91	12A	CAQ3	LT 0.045100	0.000000	LT 0.309000	LT 0.163000	LT 0.111000	0.303000	LT 0.556000	0.097500	LT 0.045100	LT 0.517000
08/28/91	13B	CAQ5	LT 0.045100	0.000000	LT 0.309000	LT 0.163000	LT 0.111000	LT 0.048600	LT 0.556000	LT 0.045100	LT 0.045100	LT 0.517000
08/28/91	13A	CAQ5	LT 0.045100	0.000000	LT 0.309000	LT 0.163000	0.728000	GT 3.470000	LT 0.556000	1.700000	LT 0.045100	4.130000
08/28/91	14A	CFC1	LT 0.045100	0.000000	LT 0.309000	LT 0.163000	0.279000	3.110000	LT 0.556000	0.867000	LT 0.045100	1.320000

## WOODWARD-CLYDE CONSULTANTS

## ROCKY MOUNTAIN ARSENAL PROGRAM

## SUMMARY OF VOLATILE ORGANIC COMPOUND CONCENTRATIONS

ALL UNITS ARE IN UG/M3

FIELD		SITE ID	CLCH6HS		DBCP RESULTS	DCPD RESULTS		DMDS RESULTS		ETC6HS RESULTS		MEC6HS RESULTS		MIBK RESULTS		TCL EE RESULTS		TRCLE RESULTS		XYLENE RESULTS	
SAMPLE DATE	SAMPLE NUMBER		RESULTS			RESULTS	RESULTS		RESULTS	RESULTS		RESULTS	RESULTS		RESULTS	RESULTS		RESULTS	RESULTS		RESULTS
08/28/91	15A	CFC1C	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	0.510000		3.970000		LT 0.556000	0.923000		LT 0.045100		2.830000			
08/28/91	26A	CFC2	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	LT 0.111000		0.785000		LT 0.556000	0.193000		LT 0.045100		LT 0.517000			
08/28/91	27A	CFC5	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	0.204000		2.050000		LT 0.556000	0.642000		LT 0.045100		0.875000			
08/28/91	28A	CQ11	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	0.159000		1.820000		LT 0.556000	0.573000		LT 0.045100		0.736000			
08/28/91	29A	CQ12	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	LT 0.111000		0.653000		LT 0.556000	LT 0.045100		LT 0.045100		LT 0.517000			
09/03/91	72B	CA02	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	LT 0.111000		LT 0.048600		LT 0.556000	LT 0.045100		LT 0.045100		LT 0.517000			
09/03/91	72A	CA02	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	0.707000		GT 3.470000		LT 0.556000	0.862000		LT 0.045100		4.310000			
09/03/91	73A	CA03	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	0.321000		2.720000		LT 0.556000	0.438000		LT 0.045100		1.640000			
09/03/91	74B	CA05	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	LT 0.111000		0.101000		LT 0.556000	LT 0.045100		LT 0.045100		LT 0.517000			
09/03/91	74A	CA05	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	0.584000		GT 3.470000		LT 0.556000	0.648000		LT 0.045100		2.950000			
09/03/91	76A	CFC1	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	0.349000		3.660000		LT 0.556000	0.760000		LT 0.045100		1.710000			
09/03/91	77A	CFC1C	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	0.244000		2.370000		LT 0.556000	0.715000		LT 0.045100		0.983000			
09/03/91	78A	CFC5	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	0.359000		2.840000		LT 0.556000	0.759000		LT 0.045100		1.820000			
09/03/91	75A	CQ11	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	LT 0.111000		0.457000		LT 0.556000	0.115000		LT 0.045100		LT 0.517000			
09/08/91	80A	CA02	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	0.134000		0.976000		LT 0.556000	0.206000		LT 0.045100		0.697000			
09/08/91	81A	CA03	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	0.173000		1.510000		LT 0.556000	0.192000		LT 0.045100		0.846000			
09/08/91	82A	CA05	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	0.516000		GT 3.470000		LT 0.556000	0.449000		LT 0.045100		2.820000			
09/08/91	82B	CA05	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	LT 0.111000		LT 0.048600		LT 0.556000	LT 0.045100		LT 0.045100		LT 0.517000			
09/08/91	83A	CFC1	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	0.259000		1.980000		LT 0.556000	0.261000		LT 0.045100		1.470000			
09/08/91	84A	CFC1C	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	0.281000		2.240000		LT 0.556000	0.335000		LT 0.045100		1.510000			
09/08/91	88A	CFC2	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	0.141000		1.200000		LT 0.556000	0.140000		LT 0.045100		LT 0.517000			
09/08/91	85A	CFC5	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	0.244000		1.810000		LT 0.556000	0.241000		LT 0.045100		1.410000			
09/08/91	86A	CQ11	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	0.254000		3.000000		LT 0.556000	0.304000		LT 0.045100		1.060000			
09/08/91	86B	CQ11	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	LT 0.111000		LT 0.048600		LT 0.556000	LT 0.045100		LT 0.045100		LT 0.517000			
09/08/91	87A	CQ12	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	0.111000		0.730000		LT 0.556000	0.102000		LT 0.045100		LT 0.517000			
09/14/91	67A	CA02	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	LT 0.111000		1.250000		LT 0.556000	0.235000		LT 0.045100		LT 0.517000			
09/14/91	67B	CA02	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	LT 0.111000		0.063300		LT 0.556000	LT 0.045100		LT 0.045100		LT 0.517000			
09/14/91	68A	CA03	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	LT 0.111000		1.210000		LT 0.556000	0.165000		LT 0.045100		LT 0.517000			
09/14/91	69A	CA05	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	LT 0.111000		1.020000		LT 0.556000	0.230000		LT 0.045100		LT 0.517000			
09/14/91	105A	CFC1	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	0.162000		1.470000		LT 0.556000	0.243000		LT 0.045100		0.720000			
09/14/91	90A	CFC1C	LT 0.045100		0.000000	LT 0.309000		LT 0.163000	LT 0.111000		1.310000		LT 0.556000	0.226000		LT 0.045100		LT 0.517000			

WOODWARD-CLYDE CONSULTANTS

ROCKY MOUNTAIN ARSENAL PROGRAM

SUMMARY OF VOLATILE ORGANIC COMPOUND CONCENTRATIONS

ALL UNITS ARE IN UG/M3

FIELD		SITE ID	CLCHGHS		DBCP	DCPD		DMDS		ETCGHS		MECGHS		MIBK		TCLEE		TRCLE		XYLENE	
SAMPLE DATE	SAMPLE NUMBER		RESULTS		RESULTS	RESULTS		RESULTS		RESULTS		RESULTS		RESULTS		RESULTS		RESULTS		RESULTS	
09/14/91	91A	CFC2	LT 0.045100		0.000000	LT 0.309000	LT 0.163000	LT 0.111000	1.720000	LT 0.556000	0.351000	LT 0.045100	LT 0.517000								
09/14/91	91B	CFC2	LT 0.045100		0.000000	LT 0.309000	LT 0.163000	LT 0.111000	LT 0.048600	LT 0.556000	LT 0.045100	LT 0.045100	LT 0.517000								
09/14/91	92A	CFC5	LT 0.045100		0.000000	LT 0.309000	LT 0.163000	LT 0.111000	0.260000	LT 0.556000	LT 0.045100	LT 0.045100	LT 0.517000								
09/14/91	70A	CQ11	LT 0.045100		0.000000	LT 0.309000	LT 0.163000	LT 0.111000	0.420000	LT 0.556000	0.078200	LT 0.045100	LT 0.517000								
09/14/91	71A	CQ12	LT 0.045100		0.000000	LT 0.309000	LT 0.163000	LT 0.111000	0.134000	LT 0.556000	LT 0.045100	LT 0.045100	LT 0.517000								
09/21/91	95A	CAQ2	LT 0.045100		0.000000	LT 0.309000	LT 0.163000	1.070000	GT 3.470000	LT 0.556000	1.680000	0.049800	5.410000								
09/21/91	95B	CAQ2	LT 0.045100		0.000000	LT 0.309000	LT 0.163000	LT 0.111000	LT 0.048600	LT 0.556000	LT 0.045100	LT 0.045100	LT 0.517000								
09/21/91	96A	CAQ3	LT 0.045100		0.000000	LT 0.309000	LT 0.163000	0.530000	GT 3.470000	LT 0.556000	0.784000	LT 0.045100	2.740000								
09/21/91	97A	CAQ5	LT 0.045100		0.000000	LT 0.309000	LT 0.163000	0.706000	GT 3.470000	LT 0.556000	1.100000	LT 0.045100	3.250000								
09/21/91	98A	CFC1	LT 0.045100		0.000000	LT 0.309000	LT 0.163000	0.551000	GT 3.470000	LT 0.556000	0.887000	LT 0.045100	3.270000								
09/21/91	99A	CFC1C	LT 0.045100		0.000000	LT 0.309000	LT 0.163000	LT 0.111000	LT 0.048600	LT 0.556000	LT 0.045100	LT 0.045100	LT 0.517000								
09/21/91	100A	CFC2	LT 0.045100		0.000000	LT 0.309000	LT 0.163000	0.500000	GT 3.470000	LT 0.556000	0.904000	LT 0.045100	3.000000								
09/21/91	101A	CFC3	LT 0.045100		0.000000	LT 0.309000	LT 0.163000	0.473000	GT 3.470000	LT 0.556000	0.792000	LT 0.045100	2.360000								
09/21/91	102A	CFC4	LT 0.045100		0.000000	LT 0.309000	LT 0.163000	0.412000	GT 3.470000	LT 0.556000	0.806000	LT 0.045100	2.000000								
09/21/91	103A	CFC5	LT 0.045100		0.000000	LT 0.309000	LT 0.163000	0.588000	GT 3.470000	LT 0.556000	0.922000	LT 0.045100	3.020000								
09/21/91	94B	CQ12	LT 0.045100		0.000000	LT 0.309000	LT 0.163000	LT 0.111000	LT 0.048600	LT 0.556000	LT 0.045100	LT 0.045100	LT 0.517000								
09/21/91	104A	CQ11	LT 0.045100		0.000000	LT 0.309000	LT 0.163000	0.502000	GT 3.470000	LT 0.556000	0.779000	LT 0.045100	3.010000								
09/21/91	94A	CQ12	LT 0.045100		0.000000	LT 0.309000	LT 0.163000	0.659000	GT 3.470000	LT 0.556000	1.050000	LT 0.045100	3.570000								
09/27/91	107A	CAQ2	LT 0.045100		ND 0.358000	LT 0.309000	LT 0.163000	2.180000	GT 3.470000	LT 0.556000	1.820000	0.073800	9.820000								
09/27/91	107B	CAQ2	LT 0.045100		0.000000	LT 0.309000	LT 0.163000	LT 0.111000	LT 0.048600	LT 0.556000	LT 0.045100	LT 0.045100	LT 0.517000								
09/27/91	108A	CAQ3	LT 0.045100		ND 0.356000	LT 0.309000	LT 0.163000	0.815000	GT 3.470000	LT 0.556000	0.765000	LT 0.045100	3.200000								
09/27/91	109A	CAQ5	LT 0.045100		ND 0.342000	LT 0.309000	LT 0.163000	1.570000	GT 3.470000	LT 0.556000	1.280000	LT 0.045100	7.770000								
09/27/91	112A	CFC1	LT 0.045100		ND 0.360000	LT 0.309000	LT 0.163000	0.910000	GT 3.470000	LT 0.556000	1.120000	LT 0.045100	3.810000								
09/27/91	113A	CFC1C	LT 0.045100		ND 0.361000	LT 0.309000	LT 0.163000	0.154000	1.640000	LT 0.556000	0.243000	LT 0.045100	0.679000								
09/27/91	114A	CFC2	LT 0.045100		ND 0.360000	LT 0.309000	LT 0.163000	1.020000	GT 3.470000	LT 0.556000	1.560000	0.070100	3.960000								
09/27/91	115A	CFC5	LT 0.045100		ND 0.355000	LT 0.309000	LT 0.163000	1.080000	GT 3.470000	LT 0.556000	1.200000	0.073800	4.750000								
09/27/91	110A	CQ11	LT 0.045100		ND 0.342000	LT 0.309000	LT 0.163000	1.530000	GT 3.470000	LT 0.556000	1.550000	LT 0.045100	6.400000								
09/27/91	110B	CQ11	LT 0.045100		0.000000	LT 0.309000	LT 0.163000	LT 0.111000	LT 0.048600	LT 0.556000	LT 0.045100	LT 0.045100	LT 0.517000								
09/27/91	111A	CQ12	LT 0.045100		ND 0.364000	LT 0.309000	LT 0.163000	1.450000	GT 3.470000	LT 0.556000	1.730000	LT 0.045100	6.910000								

E2 VENT AND CAP REAL-TIME  
MONITORING





**THE**

Date: 4-24-91

Results, in ppm:

[illegible]

Date: 7-23-91

Results, in ppm:

[illegible]

Grid #: 14-8 13-8 12-8 11-8 10-8 9-8 8-8 7-8 6-8 5-8 4-8 3-8 2-8 1-8  
 OVA: 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0  
 HNU: 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0

Grid #: 14-9 13-9 12-9 11-9 10-9 9-9 8-9 7-9 6-9 5-9 4-9 3-9 2-9 1-9  
 OVA: 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0  
 HNU: 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0

Basin F Waste Pile Vent Monitoring  
 Date: 4-22-91

Beginning Ending  
 Time: 1015 1145  
 Pressure: 24.50" 24.49"  
 Wind Speed: 4 mph 4 mph  
 Wind direction: E E  
 Temperature: 56 F 59 F

Results, in ppm:

Vent #:	1	11	7	21	20
OVA:	2.8	0.6	0.0	0.4	0.8
HNU:	0.8	0.1	0.0	0.1	0.2
NH3:	-	0.0	0.0	0.0	0.0

Vent #:	22	18	8	2	24
OVA:	3.4	0.0	0.9	0.0	1.5
HNU:	0.8	0.0	0.2	0.0	0.2
NH3:	-	0.0	0.0	0.0	0.0

Vent #:	23	15	9	3	17
OVA:	2.0	0.0	2.8	0.4	0.6
HNU:	0.7	0.0	0.2	0.1	0.1
NH3:	-	0.0	0.0	0.0	0.0

Vent #:	13	19	6	4	12
OVA:	0.7	0.4	0.8	1.1	0.6
HNU:	0.2	0.1	0.1	0.5	0.1
NH3:	0.0	0.0	0.0	0.0	0.0

Vent #:	16	14	10	5	25
OVA:	1.6	1.0	0.0	2.8	3.0
HNU:	0.8	0.2	0.0	0.8	1.2
NH3:	0.0	0.0	0.0	0.0	0.0

Sump #:	3	2	1
OVA:	0.0	0.0	0.0
HNU:	0.0	0.0	0.0
NH3:	0.0	0.0	0.0

Basin F Waste Pile vent Monitoring  
 Date: 7-23-91

Beginning Ending  
 Time: 1350 1505  
 Pressure: 25.06" 25.03"  
 Wind Speed: 3 mph 2 mph  
 Wind direction: E E  
 Temperature: 61 F 60 F

Results, in ppm:

Vent #:	1	11	7	21	20
OVA:	4.0	0.0	0.1	0.0	0.0
HNU:	0.6	0.2	0.1	0.1	0.4
NH3:	0.0	0.0	0.0	0.0	0.0

Vent #:	22	18	8	2	24
OVA:	3.6	0.0	0.6	0.1	0.0
HNU:	0.6	0.3	0.4	0.2	0.2
NH3:	0.0	0.0	0.0	0.0	0.0

Vent #:	23	15	9	3	17
OVA:	0.0	0.0	0.0	0.0	0.0
HNU:	0.0	0.0	0.0	0.0	0.0
NH3:	0.0	0.0	0.0	0.0	0.0

OVA:	2.4	0.0	4.4	2.4	0.1
HNU:	0.3	0.1	0.6	0.8	0.2
NH3:	0.0	0.0	0.0	0.0	0.0
Vent #:	13	19	6	4	12
OVA:	1.1	0.4	0.2	0.0	0.2
HNU:	0.2	0.2	0.3	0.2	0.1
NH3:	0.0	0.0	0.0	0.0	0.0
Vent #:	16	14	10	5	25
OVA:	3.2	0.8	0.2	0.8	2.2
HNU:	0.2	0.3	0.2	0.6	0.8
NH3:	0.0	0.0	0.0	0.0	0.0
SUMD #:	3	2	1		
OVA:	0.3	0.0	0.0		
HNU:	0.4	1.6	0.6		
NH3:	0.0	0.0	0.0		

#### Basin F Pond-A and Tank Farm Vent Monitoring

##### Pond-A Liner Vents

Date: 7-19-91  
Time: 1545  
Wind Speed: 10 mph  
Wind Direction: 330 deg  
Temperature: 61 F

Results, in ppm:

Vent:	North	East	South	West	Downwind
OVA:	0.0	0.0	0.2	1.4	0.0
HNU:	0.6	0.8	0.2	1.1	0.0

##### Tank Farm Vents

Date: 7-19-91

Beginning Ending  
Time: 1309 1532  
Pressure: 24.73" 24.72"  
Wind Speed: 5.6 mph 13.5 mph  
Wind Direction: 236 deg 307 deg  
Temperature: 85.3 F 83.7 F

Results, in ppm:

Tank:	West	East	South
OVA:	8.0	6.2	12.2
HNU:	2.2	2.7	4.8

APPENDIX F

ORGANOCHLORINE PESTICIDES (OCP) DATA

F1 Listing

F1 LISTING

## WOODWARD-CLYDE CONSULTANTS

## ROCKY MOUNTAIN ARSENAL PROGRAM

## SUMMARY OF ORGANO CHLORINE PESTICIDE CONCENTRATIONS

ALL UNITS ARE IN UG/M3

FIELD		SITE ID	ALDRIN RESULTS	CHLORDANE RESULTS	DIELDRIN RESULTS	ENDRIN RESULTS	ISODRIN RESULTS	PPDDE RESULTS	PPDDT RESULTS
SAMPLE DATE	SAMPLE NUMBER								
01/12/91	28156	FC1	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
01/12/91	28157	FC2	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
01/12/91	28158	FC2	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
01/12/91	28159	FC3	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
01/12/91	28160	FC4	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
01/12/91	28161	FC5	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
01/18/91	28163	FC1	LT 0.000347	LT 0.000347	0.000479	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
01/18/91	28164	FC2	LT 0.000347	LT 0.000347	0.000914	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
01/18/91	28165	FC3	LT 0.000347	LT 0.000347	0.000323	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
01/18/91	28166	FC4	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
01/18/91	28167	FC5	LT 0.000347	LT 0.000347	0.000465	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
01/24/91	100-P	CAQ1	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
01/24/91	101-P	CAQ2	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
01/24/91	102-P	CAQ3	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
01/24/91	103-P	CAQ5	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
01/24/91	104-P	CFC1	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
01/24/91	105-P	CFC1C	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
01/24/91	106-P	CFC3	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
01/24/91	107-P	CFC4	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
01/24/91	108-P	CFC5	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
01/30/91	111-P	CAQ2	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
01/30/91	112-P	CAQ3	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
01/30/91	113-P	CAQ5	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
01/30/91	114-P	CFC1	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
01/30/91	115-P	CFC1C	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
01/30/91	116-P	CFC3	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
01/30/91	117-P	CFC4	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
01/30/91	118-P	CFC5	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
02/05/91	120-P	CAQ1	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
02/05/91	121-P	CAQ2	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
02/05/91	122-P	CAQ3	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
02/05/91	123-P	CAQ5	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
02/05/91	124-P	CFC1	LT 0.000347	LT 0.000347	0.001380	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
02/05/91	125-P	CFC1C	LT 0.000347	LT 0.000347	0.001270	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347

## WOODWARD-CLYDE CONSULTANTS

ROCKY MOUNTAIN ARSENAL PROGRAM

# SUMMARY OF ORGANO CHLORINE PESTICIDE CONCENTRATIONS

ALL UNITS ARE IN UG/M3

FIELD		SITE ID	ALDRIN RESULTS	CHLORDANE RESULTS	DIELDRIN RESULTS	ENDRIN RESULTS	ISODRIN RESULTS	PPDE RESULTS	PPDOT RESULTS
SAMPLE DATE	SAMPLE NUMBER								
02/05/91	126-P	CFC3	L T 0.000347	0.001800	0.001200	L T 0.000347	L T 0.000347	L T 0.000347	L T 0.000347
02/05/91	127-P	CFC4	L T 0.000347	L T 0.000347	0.002090	L T 0.000347	L T 0.000347	L T 0.000347	L T 0.000347
02/05/91	128-P	CFC5	L T 0.000347	L T 0.000347	0.001070	L T 0.000347	L T 0.000347	L T 0.000347	L T 0.000347
02/11/91	130-P	CAQ2	L T 0.000347	L T 0.000347	L T 0.000347	L T 0.000347	L T 0.000347	L T 0.000347	L T 0.000347
02/11/91	131-P	CAQ3	L T 0.000347	L T 0.000347	L T 0.000347	L T 0.000347	L T 0.000347	L T 0.000347	L T 0.000347
02/11/91	132-P	CAO5	L T 0.000347	L T 0.000347	L T 0.000347	L T 0.000347	L T 0.000347	L T 0.000347	L T 0.000347
02/11/91	133-P	CFC1	L T 0.000347	L T 0.000347	0.000886	L T 0.000347	L T 0.000347	L T 0.000347	L T 0.000347
02/11/91	134-P	CFC1C	L T 0.000347	L T 0.000347	0.001030	L T 0.000347	L T 0.000347	L T 0.000347	L T 0.000347
02/11/91	135-P	CFC3	L T 0.000347	L T 0.000347	0.000991	L T 0.000347	L T 0.000347	L T 0.000347	L T 0.000347
02/11/91	136-P	CFC4	L T 0.000347	L T 0.000347	0.001150	L T 0.000347	L T 0.000347	L T 0.000347	L T 0.000347
02/11/91	137-P	CFC5	L T 0.000347	L T 0.000347	0.000885	L T 0.000347	L T 0.000347	L T 0.000347	L T 0.000347
02/17/91	139-P	CAQ1	L T 0.000347	L T 0.000347	L T 0.000347	L T 0.000347	L T 0.000347	L T 0.000347	L T 0.000347
02/17/91	140-P	CAQ2	L T 0.000347	L T 0.000347	L T 0.000347	L T 0.000347	L T 0.000347	L T 0.000347	L T 0.000347
02/17/91	141-P	CAQ3	L T 0.000347	L T 0.000347	L T 0.000347	L T 0.000347	L T 0.000347	L T 0.000347	L T 0.000347
02/17/91	142-P	CAO5	L T 0.000347	L T 0.000347	L T 0.000347	L T 0.000347	L T 0.000347	L T 0.000347	L T 0.000347
02/17/91	143-P	CFC1	L T 0.000347	L T 0.000347	0.001110	L T 0.000347	L T 0.000347	L T 0.000347	L T 0.000347
02/17/91	144-P	CFC1C	L T 0.000347	L T 0.000347	0.001120	L T 0.000347	L T 0.000347	L T 0.000347	L T 0.000347
02/17/91	145-P	CFC3	L T 0.000347	L T 0.000347	0.000936	L T 0.000347	L T 0.000347	L T 0.000347	L T 0.000347
02/17/91	146-P	CFC4	L T 0.000347	L T 0.000347	0.001210	L T 0.000347	L T 0.000347	L T 0.000347	L T 0.000347
02/17/91	147-P	CFC5	L T 0.000347	L T 0.000347	0.001210	L T 0.000347	L T 0.000347	L T 0.000347	L T 0.000347
02/23/91	149-P	CAQ2	L T 0.000347	L T 0.000347	L T 0.000347	L T 0.000347	L T 0.000347	L T 0.000347	L T 0.000347
02/23/91	150-P	CAQ3	L T 0.000347	L T 0.000347	L T 0.000347	L T 0.000347	L T 0.000347	L T 0.000347	L T 0.000347
02/23/91	151-P	CAO5	L T 0.000347	L T 0.000347	L T 0.000347	L T 0.000347	L T 0.000347	L T 0.000347	L T 0.000347
02/23/91	152-P	CFC1	L T 0.000347	L T 0.000347	0.000440	L T 0.000347	L T 0.000347	L T 0.000347	L T 0.000347
02/23/91	153-P	CFC1C	L T 0.000347	L T 0.000347	0.000463	L T 0.000347	L T 0.000347	L T 0.000347	L T 0.000347
02/23/91	154-P	CFC3	L T 0.000347	L T 0.000347	0.000458	L T 0.000347	L T 0.000347	L T 0.000347	L T 0.000347
02/23/91	155-P	CFC4	L T 0.000347	L T 0.000347	0.000469	L T 0.000347	L T 0.000347	L T 0.000347	L T 0.000347
02/23/91	156-P	CFC5	L T 0.000347	L T 0.000347	0.000396	L T 0.000347	L T 0.000347	L T 0.000347	L T 0.000347
03/01/91	158-P	CAQ1	L T 0.000347	L T 0.000347	L T 0.000347	L T 0.000347	L T 0.000347	L T 0.000347	L T 0.000347
03/01/91	159-P	CAQ2	L T 0.000347	L T 0.000347	L T 0.000347	L T 0.000347	L T 0.000347	L T 0.000347	L T 0.000347
03/01/91	160-P	CAQ3	L T 0.000347	L T 0.000347	L T 0.000347	L T 0.000347	L T 0.000347	L T 0.000347	L T 0.000347
03/01/91	161-P	CAO5	L T 0.000347	L T 0.000347	L T 0.000347	L T 0.000347	L T 0.000347	L T 0.000347	L T 0.000347
03/01/91	162-P	CFC1	L T 0.000347	L T 0.000347	L T 0.000347	L T 0.000347	L T 0.000347	L T 0.000347	L T 0.000347
03/01/91	163-P	CFC2	L T 0.000347	L T 0.000347	L T 0.000347	L T 0.000347	L T 0.000347	L T 0.000347	L T 0.000347



ROCKY MOUNTAIN ARSENAL PROGRAM

ALL UNITS ARE IN UG/M3

FIELD		SITE ID	ALDRIN		CHLORDANE		DIELDRIN		ENDRIN		ISODRIN		PPODE		PPDOT	
SAMPLE DATE	SAMPLE NUMBER		RESULTS		RESULTS		RESULTS		RESULTS		RESULTS		RESULTS		RESULTS	
03/01/91	164-P	CFC3	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347
03/01/91	165-P	CFC4	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347
03/01/91	166-P	CFC5	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347
03/07/91	168-P	CAQ2	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347
03/07/91	169-P	CAQ3	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347
03/07/91	170-P	CAQ5	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347
03/07/91	171-P	CFC1	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347
03/07/91	172-P	CFC1C	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347
03/07/91	173-P	CFC2	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347
03/07/91	174-P	CFC3	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347
03/07/91	175-P	CFC4	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347
03/08/91	176-P	CFC5	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347
03/13/91	178-P	CAQ1	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347
03/13/91	179-P	CAQ2	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347
03/13/91	180-P	CAQ3	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347
03/13/91	181-P	CAQ5	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347
03/13/91	182-P	CFC1	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347
03/13/91	183-P	CFC1C	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347
03/13/91	184-P	CFC2	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347
03/13/91	185-P	CFC3	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347
03/13/91	186-P	CFC4	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347
03/13/91	187-P	CFC5	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347
03/19/91	189-P	CAQ2	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347
03/19/91	190-P	CAQ3	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347
03/19/91	191-P	CAQ5	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347
03/19/91	192-P	CFC1	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347
03/19/91	193-P	CFC1C	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347
03/19/91	194-P	CFC2	LT	0.001560	LT	0.000347	LT	0.000347	LT	0.001010	LT	0.000347	LT	0.000347	LT	0.000347
03/19/91	195-P	CFC3	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347
03/19/91	196-P	CFC4	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347
03/19/91	197-P	CFC5	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347
03/25/91	199-P	CAQ1	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347
03/25/91	200-P	CAQ2	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347
03/25/91	201-P	CAQ3	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347

## WOODWARD-CLYDE CONSULTANTS

## ROCKY MOUNTAIN ARSENAL PROGRAM

## SUMMARY OF ORGANO CHLORINE PESTICIDE CONCENTRATIONS

ALL UNITS ARE IN UG/M3

FIELD		SITE ID	ALDRIN RESULTS	CHLORDANE RESULTS	DIELDRIN RESULTS	ENDRIN RESULTS	ISOORIN RESULTS	PPDDE RESULTS	PPDPT RESULTS
SAMPLE DATE	SAMPLE NUMBER								
03/25/91	202-P	CA05	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
03/25/91	203-P	CFC1	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
03/25/91	204-P	CFC1C	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
03/25/91	205-P	CFC2	LT 0.000347	LT 0.000347	0.000579	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
03/25/91	206-P	CFC3	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
03/25/91	207-P	CFC4	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
03/25/91	208-P	CFC5	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
03/31/91	210-P	CA02	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
03/31/91	211-P	CA03	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
03/31/91	213-P	CA05	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
03/31/91	214-P	CFC1	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
03/31/91	215-P	CFC1C	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
03/31/91	216-P	CFC2	LT 0.000347	LT 0.000347	0.000961	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
03/31/91	217-P	CFC5	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
03/31/91	218-P	CO11	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
03/31/91	219-P	CO12	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
04/12/91	232-P	CA02	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
04/12/91	233-P	CA03	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
04/12/91	234-P	CA05	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
04/12/91	235-P	CFC1	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
04/12/91	236-P	CFC1C	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
04/18/91	242-P	CA01	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
04/18/91	243-P	CA02	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
04/18/91	244-P	CA03	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
04/18/91	245-P	CA05	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
04/18/91	246-P	CFC1	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
04/18/91	247-P	CFC1C	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
04/18/91	248-P	CFC2	LT 0.000347	LT 0.000347	0.000961	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
04/18/91	249-P	CFC5	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
04/18/91	251-P	CO12	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
04/24/91	253-P	CA02	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
04/24/91	254-P	CA03	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
04/24/91	255-P	CA05	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
04/24/91	256-P	CFC1	LT 0.000347	LT 0.000347	0.001350	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347

## WOODWARD-CLYDE CONSULTANTS

## ROCKY MOUNTAIN ARSENAL PROGRAM

## SUMMARY OF ORGANO CHLORINE PESTICIDE CONCENTRATIONS

ALL UNITS ARE IN UC/M3

FIELD		SITE ID	ALDRIN RESULTS	CHLORDANE RESULTS	DIELDRIN RESULTS	ENDRIN RESULTS	ISODRIN RESULTS	PPDE RESULTS	PPDDT RESULTS
SAMPLE DATE	SAMPLE NUMBER								
04/24/91	257-P	CFC1C	LT 0.000347	LT 0.000347	0.001350	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
04/24/91	258-P	CFC2	LT 0.000347	LT 0.000347	0.003000	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
04/24/91	259-P	CFC5	LT 0.000347	LT 0.000347	0.001280	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
04/24/91	260-P	CQ11	LT 0.000347	LT 0.000347	0.001000	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
04/24/91	261-P	CQ12	LT 0.000347	LT 0.000347	0.001340	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
04/30/91	263-P	CA01	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
04/30/91	264-P	CA02	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
04/30/91	265-P	CA03	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
04/30/91	266-P	CA05	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
04/30/91	267-P	CFC1	LT 0.000347	LT 0.000347	0.000678	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
04/30/91	269-P	CFC2	LT 0.000347	LT 0.000347	0.002070	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
04/30/91	270-P	CFC3	LT 0.000347	LT 0.000347	0.001130	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
04/30/91	271-P	CFC4	LT 0.000347	LT 0.000347	0.001130	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
04/30/91	272-P	CFC5	LT 0.000347	LT 0.000347	0.000596	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
04/30/91	273-P	CQ11	LT 0.000347	LT 0.000347	0.000427	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
04/30/91	274-P	CQ12	LT 0.000347	LT 0.000347	0.000824	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
05/06/91	276-P	CA02	LT 0.000347	LT 0.000347	0.000565	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
05/06/91	277-P	CA03	LT 0.000347	LT 0.000347	0.000625	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
05/06/91	278-P	CA05	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
05/06/91	279-P	CFC1	LT 0.000347	LT 0.000347	0.001980	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
05/06/91	280-P	CFC1C	LT 0.000347	LT 0.000347	0.002130	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
05/06/91	281-P	CFC2	LT 0.000347	LT 0.000347	0.008010	0.001080	LT 0.000347	LT 0.000347	LT 0.000347
05/06/91	282-P	CFC5	LT 0.000347	LT 0.000347	0.002500	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
05/06/91	283-P	CQ11	LT 0.000347	LT 0.000347	0.002880	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
05/06/91	284-P	CQ12	LT 0.000347	LT 0.000347	0.003450	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
05/12/91	286-P	CA01	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
05/12/91	287-P	CA02	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
05/12/91	289-P	CA05	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
05/12/91	292-P	CFC2	0.001260	LT 0.000347	0.005740	0.001110	LT 0.000347	LT 0.000347	LT 0.000347
05/12/91	293-P	CFC5	LT 0.000347	LT 0.000347	0.001610	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
05/12/91	304-P	CQ11	LT 0.000347	LT 0.000347	0.000539	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
05/12/91	305-P	CQ12	LT 0.000347	LT 0.000347	0.000747	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
05/18/91	307-P	CA01	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
05/18/91	308-P	CA02	LT 0.000347	LT 0.000347	0.000658	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347

## WOODWARD-CLYDE CONSULTANTS

## ROCKY MOUNTAIN ARSENAL PROGRAM

## SUMMARY OF ORGANO CHLORINE PESTICIDE CONCENTRATIONS

ALL UNITS ARE IN UG/M3

FIELD		SITE ID	ALDRIN	CHLORDANE		DIELDRIN	ENDRIN	ISODRIN		PPDPT
SAMPLE DATE	SAMPLE NUMBER		RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS
05/18/91	309-P	CA03	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
05/18/91	310-P	CA05	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
05/18/91	311-P	CFC1	LT 0.000347	LT 0.000347	0.002430	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
05/18/91	312-P	CFC1C	LT 0.000347	LT 0.000347	0.002480	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
05/18/91	313-P	CFC2	LT 0.000347	LT 0.000347	0.007640	0.001080	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
05/18/91	314-P	CFC5	LT 0.000347	LT 0.000347	0.001070	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
05/18/91	315-P	CQ11	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
05/18/91	316-P	CQ12	LT 0.000347	LT 0.000347	0.000750	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
05/24/91	318-P	CA01	LT 0.000347	LT 0.000347	0.000421	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
05/24/91	319-P	CA02	LT 0.000347	LT 0.000347	0.000460	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
05/24/91	320-P	CA03	LT 0.000347	0.002120	0.002300	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
05/24/91	321-P	CA05	LT 0.000347	LT 0.000347	0.000466	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
05/24/91	322-P	CFC1	LT 0.000347	0.002260	0.007560	0.000725	0.000725	LT 0.000347	LT 0.000347	LT 0.000347
05/24/91	323-P	CFC1C	LT 0.000347	0.002300	0.007580	0.000698	0.000698	LT 0.000347	LT 0.000347	LT 0.000347
05/24/91	324-P	CFC2	0.000484	0.002840	0.025000	0.002260	0.002260	LT 0.000347	LT 0.000347	LT 0.000347
05/24/91	325-P	CFC3	LT 0.000347	0.003150	0.017000	0.01120	0.01120	LT 0.000347	LT 0.000347	LT 0.000347
05/24/91	326-P	CFC4	LT 0.000347	0.002510	0.009200	0.000957	0.000957	LT 0.000347	LT 0.000347	LT 0.000347
05/24/91	327-P	CFC5	LT 0.000347	0.001770	0.005320	0.000518	0.000518	LT 0.000347	LT 0.000347	LT 0.000347
05/24/91	328-P	CQ11	LT 0.000347	0.002910	0.009500	0.000774	0.000774	LT 0.000347	LT 0.000347	LT 0.000347
05/24/91	329-P	CQ12	LT 0.000347	0.003450	0.018000	0.01100	0.01100	LT 0.000347	LT 0.000347	LT 0.000347
05/30/91	331-P	CA02	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
05/30/91	332-P	CA03	LT 0.000347	LT 0.000347	0.001300	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
05/30/91	333-P	CA05	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
05/30/91	334-P	CFC1	LT 0.000347	LT 0.000347	0.004550	0.000475	0.000475	LT 0.000347	LT 0.000347	LT 0.000347
05/30/91	335-P	CFC1C	LT 0.000347	LT 0.000347	0.004260	0.000454	0.000454	LT 0.000347	LT 0.000347	LT 0.000347
05/30/91	336-P	CFC2	0.001120	0.003780	0.025000	0.002620	0.002620	LT 0.000347	LT 0.000347	LT 0.000347
05/30/91	337-P	CFC5	LT 0.000347	LT 0.000347	0.004810	0.000492	0.000492	LT 0.000347	LT 0.000347	LT 0.000347
05/30/91	338-P	CQ11	LT 0.000347	LT 0.000347	0.005660	0.000426	0.000426	LT 0.000347	LT 0.000347	LT 0.000347
05/30/91	339-P	CQ12	LT 0.000347	LT 0.000347	0.006580	0.000665	0.000665	LT 0.000347	LT 0.000347	LT 0.000347
06/05/91	341-P	CA01	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
06/05/91	351-P	CA02	LT 0.000347	LT 0.000347	0.000912	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
06/05/91	343-P	CA03	LT 0.000347	LT 0.000347	0.001100	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
06/05/91	344-P	CA05	LT 0.000347	LT 0.000347	0.000435	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
06/05/91	345-P	CFC1	0.000534	0.003080	0.005940	0.000746	0.000746	LT 0.000347	LT 0.000347	LT 0.000347

## WOODWARD-CLYDE CONSULTANTS

## ROCKY MOUNTAIN ARSENAL PROGRAM

## SUMMARY OF ORGANO CHLORINE PESTICIDE CONCENTRATIONS

ALL UNITS ARE IN UG/M3

FIELD		SITE ID	ALDRIN		CHLORDANE		DIELDRIN		ENDRIN		ISODRIN		PPDE		PPDT	
SAMPLE DATE	SAMPLE NUMBER		RESULTS		RESULTS		RESULTS		RESULTS		RESULTS		RESULTS		RESULTS	
06/05/91	346-P	CFC1C	0.000526		0.003100		0.005750		0.000763		LT	0.000347	LT	0.000347	LT	0.000347
06/05/91	352-P	CFC2	0.001140		0.002180		0.018000		0.002020		LT	0.000347	LT	0.000347	LT	0.000347
06/05/91	348-P	CFC5	0.000423		0.003080		0.005690		0.000633		LT	0.000347	LT	0.000347	LT	0.000347
06/05/91	349-P	CQ11	LT	0.000347	0.002420		0.002610		LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347
06/05/91	350-P	CQ12	LT	0.000347	0.003330		0.004660		0.000545		LT	0.000347	LT	0.000347	LT	0.000347
06/11/91	355-P	CAQ3	LT	0.000347	LT	0.000347	0.002250		LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347
06/11/91	356-P	CAQ5	LT	0.000347	LT	0.000347	0.000418		LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347
06/11/91	357-P	CFC1	0.000440		0.007890		0.020000		0.002000		LT	0.000347	LT	0.000347	LT	0.000347
06/11/91	358-P	CFC1C	0.000677		0.007210		0.021000		0.001870		LT	0.000347	LT	0.000347	LT	0.000347
06/11/91	359-P	CFC2	0.000989		0.008380		0.052000		0.004820		LT	0.000347	LT	0.000347	LT	0.000347
06/11/91	360-P	CFC5	LT	0.000347	0.006820		0.021000		0.001950		LT	0.000347	LT	0.000347	LT	0.000347
06/11/91	361-P	CQ11	LT	0.000347	0.004870		0.012000		0.000978		LT	0.000347	LT	0.000347	LT	0.000347
06/11/91	362-P	CQ12	LT	0.000347	0.007790		0.009760		0.000755		LT	0.000347	LT	0.000347	LT	0.000347
06/13/91	364-P	CFC1	LT	0.000347	0.002800		0.003920		0.000459		LT	0.000347	LT	0.000347	LT	0.000347
06/13/91	366-P	CFC1C	LT	0.000347	0.002500		0.003190		0.000391		LT	0.000347	LT	0.000347	LT	0.000347
06/13/91	367-P	CFC2	LT	0.000347	0.002970		0.008660		0.001050		LT	0.000347	LT	0.000347	LT	0.000347
06/13/91	368-P	CFC3	LT	0.000347	0.004100		0.002800		LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347
06/13/91	369-P	CFC5	LT	0.000347	0.002410		0.003430		LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347
06/17/91	371-P	CAQ1	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347
06/17/91	372-P	CAQ2	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347
06/17/91	373-P	CAQ3	LT	0.000347	LT	0.000347	0.000857		LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347
06/17/91	374-P	CAQ5	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347
06/17/91	375-P	CFC1	LT	0.000347	LT	0.000347	0.001890		LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347
06/17/91	376-P	CFC1C	LT	0.000347	LT	0.000347	0.001980		LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347
06/17/91	377-P	CFC2	LT	0.000347	LT	0.000347	0.003740		0.000531		LT	0.000347	LT	0.000347	LT	0.000347
06/17/91	378-P	CFC3	LT	0.000347	LT	0.000347	0.001440		LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347
06/17/91	379-P	CFC4	LT	0.000347	LT	0.000347	0.002270		LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347
06/17/91	380-P	CFC5	LT	0.000347	LT	0.000347	0.002020		LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347
06/17/91	381-P	CQ11	LT	0.000347	LT	0.000347	0.002080		LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347
06/17/91	383-P	CQ12	LT	0.000347	0.001220		0.002170		LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347
06/19/91	384-P	CFC1C	LT	0.000347	0.002650		0.001310		LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347
06/21/91	393-P	CFC2	LT	0.000347	LT	0.000347	0.002690		LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347
06/21/91	390-P	CQ11	LT	0.000347	LT	0.000347	0.000551		LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347
06/21/91	392-P	CQ12	LT	0.000347	LT	0.000347	0.001400		LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347

ROCKY MOUNTAIN ARSENAL PROGRAM

ALL UNITS ARE IN UG/M3

FIELD		SAMPLE DATE	SAMPLE NUMBER	SITE ID	ALDRIN		CHLORDANE		DIELDRIN		ENDRIN		ISODRIN		PPDDE		PPDPT	
					RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS
06/29/91		412-P	CA02	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT
06/29/91		413-P	CA03	LT	0.000347	LT	0.000347	LT	0.000347	0.000920	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347
06/29/91		415-P	CA05	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT
06/29/91		416-P	CFC1	LT	0.000347	LT	0.000347	0.003120	0.000468	0.003130	0.000468	LT	0.000347	LT	0.000347	LT	0.000347	LT
06/29/91		417-P	CFC1C	LT	0.000347	LT	0.000347	0.003060	0.000445	0.002980	0.000445	LT	0.000347	LT	0.000347	LT	0.000347	LT
06/29/91		418-P	CFC2	LT	0.000347	LT	0.000347	0.003230	0.000834	0.006260	0.000834	LT	0.000347	LT	0.000347	LT	0.000347	LT
06/29/91		419-P	CFC5	LT	0.000347	LT	0.000347	0.003020	0.000426	0.003060	0.000426	LT	0.000347	LT	0.000347	LT	0.000347	LT
06/29/91		420-P	CO11	LT	0.000347	LT	0.000347	0.003370	0.000347	0.002860	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT
06/29/91		421-P	CO12	LT	0.000347	LT	0.000347	0.003670	0.000491	0.003980	0.000491	LT	0.000347	LT	0.000347	LT	0.000347	LT
07/05/91		422-P	CA01	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT
07/05/91		423-P	CA02	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT
07/05/91		424-P	CA03	LT	0.000347	LT	0.000347	LT	0.000347	0.006668	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT
07/05/91		425-P	CA05	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT
07/05/91		426-P	CFC1	LT	0.000347	LT	0.000347	LT	0.000347	0.001250	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT
07/05/91		427-P	CFC1C	LT	0.000347	LT	0.000347	LT	0.000347	0.001170	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT
07/05/91		428-P	CFC2	LT	0.000347	LT	0.000347	LT	0.000347	0.002290	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT
07/05/91		429-P	CFC5	LT	0.000347	LT	0.000347	LT	0.000347	0.001270	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT
07/05/91		430-P	CO11	LT	0.000347	LT	0.000347	LT	0.000347	0.000802	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT
07/05/91		431-P	CO12	LT	0.000347	LT	0.000347	0.000864	0.000885	0.000885	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT
07/11/91		433-P	CA01	LT	0.000347	LT	0.000347	0.001280	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347
07/11/91		434-P	CA02	LT	0.000347	LT	0.000347	0.003220	0.001410	0.001410	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT
07/11/91		435-P	CA03	LT	0.000347	LT	0.000347	LT	0.000347	0.001010	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT
07/11/91		436-P	CA05	LT	0.000347	LT	0.000347	0.000899	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347
07/11/91		437-P	CFC1	LT	0.000347	LT	0.000347	0.005380	0.004460	0.004460	0.000526	LT	0.000347	LT	0.000347	LT	0.000347	LT
07/11/91		438-P	CFC1C	LT	0.000347	LT	0.000347	0.005880	0.005250	0.005250	0.000551	LT	0.000347	LT	0.000347	LT	0.000347	LT
07/11/91		439-P	CFC2	LT	0.000347	LT	0.000347	0.007630	0.009320	0.009320	0.000841	LT	0.000347	LT	0.000347	LT	0.000347	LT
07/11/91		440-P	CFC3	LT	0.000347	LT	0.000347	0.006700	0.006390	0.006390	0.000590	LT	0.000347	LT	0.000347	LT	0.000347	LT
07/11/91		441-P	CFC4	LT	0.000347	LT	0.000347	0.005150	0.005810	0.005810	0.000712	LT	0.000347	LT	0.000347	LT	0.000347	LT
07/11/91		442-P	CFC5	LT	0.000347	LT	0.000347	0.005980	0.004230	0.004230	0.000467	LT	0.000347	LT	0.000347	LT	0.000347	LT
07/11/91		443-P	CO11	LT	0.000347	LT	0.000347	0.004270	0.002990	0.002990	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT
07/11/91		444-P	CO12	LT	0.000347	LT	0.000347	0.007760	0.005660	0.005660	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT
07/17/91		446-P	CA02	LT	0.000347	LT	0.000347	LT	0.000347	0.000446	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT
07/17/91		447-P	CA03	LT	0.000347	LT	0.000347	LT	0.000347	0.001040	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT
07/17/91		448-P	CA05	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT	0.000347	LT

## WOODWARD-CLYDE CONSULTANTS

## ROCKY MOUNTAIN ARSENAL PROGRAM

## SUMMARY OF ORGANO CHLORINE PESTICIDE CONCENTRATIONS

ALL UNITS ARE IN UG/M3

SAMPLE DATE	FIELD SAMPLE NUMBER	SITE ID	ALDRIN		CHLORDANE		DIELDRIN		ENDRIN		ISODRIN		PPDE		PPDOT	
			RESULTS		RESULTS		RESULTS		RESULTS		RESULTS		RESULTS		RESULTS	
07/17/91	449-P	CFC1	LT 0.000347		0.003060		0.003560		0.000889		LT 0.000347		LT 0.000347		LT 0.000347	
07/17/91	450-P	CFC1C	LT 0.000347		0.002820		0.003690		0.000817		LT 0.000347		LT 0.000347		LT 0.000347	
07/17/91	451-P	CFC2	LT 0.000347		0.003400		0.007210		0.001210		LT 0.000347		LT 0.000347		LT 0.000347	
07/17/91	452-P	CFC5	LT 0.000347		0.002180		0.003010		0.000731		LT 0.000347		LT 0.000347		LT 0.000347	
07/17/91	453-P	C011	LT 0.000347		0.002790		0.003190		0.000574		LT 0.000347		LT 0.000347		LT 0.000347	
07/17/91	454-P	C011	LT 0.000347		0.003320		0.003540		0.000671		LT 0.000347		LT 0.000347		LT 0.000347	
07/23/91	456-P	CA01	LT 0.000347		LT 0.000347		LT 0.000347		LT 0.000347		LT 0.000347		LT 0.000347		LT 0.000347	
07/23/91	457-P	CA02	LT 0.000347		LT 0.000347		LT 0.000347		LT 0.000347		LT 0.000347		LT 0.000347		LT 0.000347	
07/23/91	458-P	CA03	LT 0.000347		LT 0.000347		LT 0.000347		LT 0.000347		LT 0.000347		LT 0.000347		LT 0.000347	
07/23/91	459-P	CA05	LT 0.000347		LT 0.000347		0.000924		LT 0.000347		LT 0.000347		LT 0.000347		LT 0.000347	
07/23/91	460-P	CFC1	LT 0.000347		LT 0.000347		0.000666		LT 0.000347		LT 0.000347		LT 0.000347		LT 0.000347	
07/23/91	461-P	CFC1C	LT 0.000347		LT 0.000347		0.000690		LT 0.000347		LT 0.000347		LT 0.000347		LT 0.000347	
07/23/91	462-P	CFC2	LT 0.000347		LT 0.000347		0.004860		0.000684		LT 0.000347		LT 0.000347		LT 0.000347	
07/23/91	464-P	CFC5	LT 0.000347		LT 0.000347		0.000590		LT 0.000347		LT 0.000347		LT 0.000347		LT 0.000347	
07/23/91	465-P	C011	LT 0.000347		LT 0.000347		0.000734		LT 0.000347		LT 0.000347		LT 0.000347		LT 0.000347	
07/23/91	466-P	C012	LT 0.000347		LT 0.000347		0.001550		LT 0.000347		LT 0.000347		LT 0.000347		LT 0.000347	
07/29/91	2-P	CA02	LT 0.000347		0.001260		0.001260		LT 0.000347		LT 0.000347		LT 0.000347		LT 0.000347	
07/29/91	3-P	CA03	LT 0.000347		0.001720		0.001660		LT 0.000347		LT 0.000347		LT 0.000347		LT 0.000347	
07/29/91	4-P	CA05	LT 0.000347		LT 0.000347		LT 0.000347		LT 0.000347		LT 0.000347		LT 0.000347		LT 0.000347	
07/29/91	5-P	CFC1	LT 0.000347		0.003700		0.007160		0.000971		LT 0.000347		LT 0.000347		LT 0.000347	
07/29/91	6-P	CFC1C	LT 0.000347		0.003560		0.006520		0.000890		LT 0.000347		LT 0.000347		LT 0.000347	
07/29/91	7-P	CFC2	LT 0.000347		0.005540		0.020000		0.002220		LT 0.000347		LT 0.000347		LT 0.000347	
07/29/91	8-P	CFC5	LT 0.000347		0.004000		0.008160		0.001060		LT 0.000347		LT 0.000347		LT 0.000347	
07/29/91	9-P	C011	LT 0.000347		0.003570		0.004790		0.000599		LT 0.000347		LT 0.000347		LT 0.000347	
07/29/91	10-P	C012	LT 0.000347		0.005940		0.005490		0.000672		LT 0.000347		LT 0.000347		LT 0.000347	
08/04/91	11-P	CA01	LT 0.000347		0.001210		LT 0.000347		LT 0.000347		LT 0.000347		LT 0.000347		LT 0.000347	
08/04/91	12-P	CA02	LT 0.000376		0.001220		0.000663		LT 0.000376		LT 0.000376		LT 0.000376		LT 0.000376	
08/04/91	13-P	CA03	LT 0.000347		0.001490		0.001490		LT 0.000347		LT 0.000347		LT 0.000347		LT 0.000347	
08/04/91	14-P	CA05	LT 0.000347		0.000749		0.000463		LT 0.000347		LT 0.000347		LT 0.000347		LT 0.000347	
08/04/91	17-P	CFC1	0.002530		0.008630		0.017000		0.001650		LT 0.000347		LT 0.000347		LT 0.000347	
08/04/91	19-P	CFC1C	0.002330		0.008800		0.018000		0.001690		LT 0.000347		LT 0.000347		LT 0.000347	
08/04/91	20-P	CFC2	0.006340		0.013000		0.061000		0.005480		0.000463		LT 0.000347		LT 0.000347	
08/04/91	21-P	CFC5	0.002070		0.007610		0.016000		0.001420		LT 0.000347		LT 0.000347		LT 0.000347	
08/04/91	15-P	C011	0.001290		0.007850		0.008690		0.000785		LT 0.000347		LT 0.000347		LT 0.000347	

## WOODWARD-CLYDE CONSULTANTS

## ROCKY MOUNTAIN ARSENAL PROGRAM

## SUMMARY OF ORGANO CHLORINE PESTICIDE CONCENTRATIONS

ALL UNITS ARE IN UG/M3

FIELD		SITE ID	ALDRIN RESULTS	CHLORDANE RESULTS	DIELDRIN RESULTS	ENDRIN RESULTS	ISODRIN RESULTS	PPDDE RESULTS	PPDPT RESULTS
SAMPLE DATE	SAMPLE NUMBER								
08/04/91	16-P	CQ12	0.001050	0.015000	0.015000	0.001110	LT 0.000347	LT 0.000347	LT 0.000347
08/10/91	24-P	CA01	LT 0.000347	0.000964	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
08/10/91	31-P	CA02	LT 0.000347	0.001020	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
08/10/91	32-P	CA03	LT 0.000347	0.001010	0.000773	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
08/10/91	34-P	CA05	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
08/10/91	37-P	CFC1	LT 0.000347	0.002260	0.005600	0.000821	LT 0.000347	LT 0.000347	LT 0.000347
08/10/91	38-P	CFC1C	LT 0.000347	0.001730	0.004480	0.000664	LT 0.000347	LT 0.000347	LT 0.000347
08/10/91	39-P	CFC2	0.000571	0.003340	0.012000	0.001690	LT 0.000347	LT 0.000347	LT 0.000347
08/10/91	40-P	CFC5	LT 0.000347	0.002520	0.005680	0.000902	LT 0.000347	LT 0.000347	LT 0.000347
08/10/91	35-P	CQ11	LT 0.000347	0.003910	0.004630	0.000759	LT 0.000347	LT 0.000347	LT 0.000347
08/10/91	36-P	CQ12	LT 0.000347	0.004810	0.006010	0.000912	LT 0.000347	LT 0.000347	LT 0.000347
08/16/91	45-P	CA01	LT 0.000347	0.002120	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
08/16/91	22-P	CA02	LT 0.000347	0.000849	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
08/16/91	23-P	CA03	LT 0.000347	0.002200	0.001740	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
08/16/91	25-P	CA05	LT 0.000347	0.000897	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
08/16/91	26-P	CFC1	LT 0.000347	0.001220	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
08/16/91	27-P	CFC1C	LT 0.000347	0.001210	0.002180	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
08/16/91	28-P	CFC2	0.000826	0.001720	0.007810	0.001030	LT 0.000347	LT 0.000347	LT 0.000347
08/16/91	29-P	CFC3	LT 0.000347	0.001590	0.003460	0.000652	LT 0.000347	LT 0.000347	LT 0.000347
08/16/91	30-P	CFC4	LT 0.000347	0.001030	0.001590	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
08/16/91	41-P	CFC5	LT 0.000347	0.001410	0.002470	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
08/16/91	42-P	CQ11	0.000467	0.003600	0.004670	0.000531	LT 0.000347	LT 0.000347	LT 0.000347
08/16/91	43-P	CQ12	LT 0.000347	0.003630	0.004870	0.000469	LT 0.000347	LT 0.000347	LT 0.000347
08/22/91	46-P	CA02	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
08/22/91	47-P	CA03	LT 0.000347	0.000786	0.000699	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
08/22/91	48-P	CA05	LT 0.000347	0.000667	0.000442	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
08/22/91	49-P	CFC1	LT 0.000347	0.000687	0.001010	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
08/22/91	50-P	CFC1C	LT 0.000347	0.000714	0.001090	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
08/22/91	51-P	CFC2	LT 0.000347	0.001040	0.003870	0.000522	LT 0.000347	LT 0.000347	LT 0.000347
08/22/91	52-P	CFC5	LT 0.000347	0.000826	0.001170	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
08/22/91	53-P	CQ11	LT 0.000347	0.000806	0.001240	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
08/22/91	54-P	CQ12	LT 0.000347	0.001220	0.001570	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
08/28/91	61-P	CA01	LT 0.000347	0.001200	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
08/28/91	62-P	CA02	LT 0.000347	0.001730	0.001110	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347



## WOODWARD-CLYDE CONSULTANTS

## ROCKY MOUNTAIN ARSENAL PROGRAM

## SUMMARY OF ORGANO CHLORINE PESTICIDE CONCENTRATIONS

ALL UNITS ARE IN UG/M3

FIELD		SITE ID	ALDRIN RESULTS	CHLORDANE RESULTS	DIELDRIN RESULTS	ENDRIN RESULTS	ISODRIN RESULTS	PPDE RESULTS	PPDOT RESULTS
SAMPLE DATE	SAMPLE NUMBER								
08/28/91	63-P	CA03	0.000442	0.005930	0.004380	0.000494	LT 0.000347	LT 0.000347	LT 0.000347
08/28/91	64-P	CA05	LT 0.000347	0.000923	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
08/28/91	65-P	CFC1	0.001200	0.004980	0.014400	0.001150	LT 0.000347	LT 0.000347	LT 0.000347
08/28/91	66-P	CFC1C	0.001310	0.005390	0.016000	0.001280	LT 0.000347	LT 0.000347	LT 0.000347
08/28/91	67-P	CFC2	0.001380	LT 0.000347	0.011800	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
08/28/91	68-P	CFC5	0.001410	0.005280	0.015000	0.001190	LT 0.000347	LT 0.000347	LT 0.000347
08/28/91	69-P	CQ11	0.001420	0.009210	0.020000	0.001320	LT 0.000347	LT 0.000347	LT 0.000347
08/30/91	56-P	CA01	LT 0.000347	0.000749	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
08/30/91	57-P	CA02	LT 0.000347	0.001000	0.000461	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
08/30/91	58-P	CA03	LT 0.000347	LT 0.000347	0.000699	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
08/30/91	59-P	CA05	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
09/03/91	75-P	CA02	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
09/03/91	77-P	CA03	LT 0.000347	LT 0.000347	0.001040	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
09/03/91	78-P	CA05	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
09/03/91	79-P	CFC1	LT 0.000347	LT 0.000347	0.001500	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
09/03/91	80-P	CFC1C	LT 0.000347	LT 0.000347	0.000966	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
09/03/91	82-P	CFC5	LT 0.000347	LT 0.000347	0.001590	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
09/03/91	83-P	CQ11	LT 0.000347	LT 0.000347	0.002550	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
09/10/91	85-P	CA01	LT 0.000347	0.000762	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
09/10/91	86-P	CA02	LT 0.000347	0.001140	0.000480	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
09/10/91	87-P	CA03	LT 0.000347	LT 0.000347	0.000375	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
09/10/91	88-P	CA05	LT 0.000347	0.000626	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
09/10/91	89-P	CFC1	LT 0.000347	LT 0.000347	0.001630	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
09/10/91	90-P	CFC1C	LT 0.000347	0.001390	0.001560	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
09/10/91	95-P	CFC2	LT 0.000347	0.001790	0.003440	0.000379	LT 0.000347	LT 0.000347	LT 0.000347
09/10/91	91-P	CFC5	LT 0.000347	0.001140	0.001350	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
09/10/91	93-P	CQ11	LT 0.000347	LT 0.000347	0.000874	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
09/10/91	94-P	CQ12	LT 0.000347	0.001230	0.001160	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
09/14/91	96-P	CA02	LT 0.000347	0.001760	0.000484	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
09/14/91	97-P	CA03	LT 0.000347	LT 0.000347	0.000580	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
09/14/91	98-P	CA05	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
09/14/91	102-P	CFC1	LT 0.000347	LT 0.000347	0.001860	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
09/14/91	103-P	CFC1C	LT 0.000347	LT 0.000347	0.001880	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
09/14/91	105-P	CFC2	LT 0.000347	0.001450	0.005730	0.000510	LT 0.000347	LT 0.000347	LT 0.000347

## WOODWARD-CLYDE CONSULTANTS

## ROCKY MOUNTAIN ARSENAL PROGRAM

## SUMMARY OF ORGANO CHLORINE PESTICIDE CONCENTRATIONS

ALL UNITS ARE IN UG/M3

FIELD		SITE ID	ALDRIN RESULTS	CHLORDANE RESULTS	DIELDRIN RESULTS	ENDRIN RESULTS	ISODRIN RESULTS	PPDE RESULTS	PPOOT RESULTS
SAMPLE DATE	SAMPLE NUMBER								
09/14/91	106-P	CFC5	LT 0.000347	0.001220	0.001940	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
09/14/91	100-P	CQ11	LT 0.000347	0.001710	0.001830	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
09/14/91	101-P	CQ12	LT 0.000347	0.001850	0.001970	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
09/23/91	107-P	CA01	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
09/23/91	108-P	CA02	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
09/23/91	109-P	CA03	LT 0.000347	LT 0.000347	0.000478	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
09/23/91	110-P	CA05	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
09/23/91	111-P	CFC1	LT 0.000347	LT 0.000347	0.000623	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
09/23/91	112-P	CFC1C	LT 0.000347	LT 0.000347	0.000654	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
09/23/91	113-P	CFC2	LT 0.000347	LT 0.000347	0.001250	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
09/23/91	114-P	CFC3	LT 0.000347	LT 0.000347	0.000568	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
09/23/91	115-P	CFC4	LT 0.000347	LT 0.000347	0.000646	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
09/23/91	116-P	CFC5	LT 0.000347	LT 0.000347	0.000603	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
09/23/91	117-P	CQ11	LT 0.000347	LT 0.000347	0.000625	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
09/23/91	118-P	CQ12	LT 0.000347	LT 0.000347	0.000657	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
09/27/91	119-P	CA02	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
09/27/91	120-P	CA03	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
09/27/91	121-P	CA05	LT 0.000347	LT 0.000347	0.000627	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
09/27/91	124-P	CFC1	LT 0.000347	LT 0.000347	0.000895	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
09/27/91	125-P	CFC1C	LT 0.000347	LT 0.000347	0.000987	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
09/27/91	126-P	CFC2	LT 0.000347	0.001320	0.001390	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
09/27/91	128-P	CFC5	LT 0.000347	0.001180	0.001070	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
09/27/91	122-P	CQ11	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347
09/27/91	123-P	CQ12	LT 0.000347	LT 0.000347	0.000513	LT 0.000347	LT 0.000347	LT 0.000347	LT 0.000347

## APPENDIX G

### QUALITY ASSURANCE/QUALITY CONTROL

- G1 Precision Calculations
- G2 Daily Zero and Span Data for Continuous  
Gaseous Monitors
- G3 Audit Results

G1 PRECISION CALCULATIONS

TSP Precision Calculations  
RMA FY 91

Date	Site	Conc	Site	Conc	% Diff
01/24/91	AQ5	48.14	AQ5-C	37.61	-21.89
01/30/91	AQ5	75.05	AQ5-C	67.78	-9.68
02/05/91	AQ5	99.99	AQ5-C	59.77	-40.22
02/11/91	AQ5	81.08	AQ5-C	67.84	-16.34
02/17/91	AQ5	35.09	AQ5-C	29.58	-15.71
02/23/91	AQ5	54.40	AQ5-C	45.00	-17.28
03/01/91	AQ5	55.08	AQ5-C	51.78	-5.99
03/13/91	AQ5	26.31	AQ5-C	23.42	-11.01
03/19/91	AQ5	93.98	AQ5-C	86.28	-8.19
03/25/91	AQ5	35.71	AQ5-C	30.20	-15.44
03/31/91	AQ5	18.82	AQ5-C	17.88	
04/12/91	AQ5	12.54	AQ5-C	10.52	
04/18/91	AQ5	60.51	AQ5-C	54.84	-9.37
04/30/91	AQ5	26.87	AQ5-C	23.44	-12.76
05/06/91	AQ5	29.45	AQ5-C	25.92	-11.98
05/12/91	AQ5	48.49	AQ5-C	43.82	-9.63
05/18/91	AQ5	58.56	AQ5-C	50.12	-14.41
05/24/91	AQ5	23.04	AQ5-C	20.43	-11.32
05/30/91	AQ5	58.53	AQ5-C	50.70	-13.36
06/05/91	AQ5	33.00	AQ5-C	29.10	-11.79
06/11/91	AQ5	35.54	AQ5-C	30.94	-12.96
06/17/91	AQ5	62.59	AQ5-C	50.17	-19.84
06/23/91	AQ5	37.38	AQ5-C	32.83	-12.18
06/29/91	AQ5	75.21	AQ5-C	61.46	-18.28
07/05/91	AQ5	54.07	AQ5-C	47.64	-11.89
07/11/91	AQ5	37.36	AQ5-C	32.18	-13.86
07/17/91	AQ5	54.91	AQ5-C	46.99	-14.42
07/29/91	AQ5	33.94	AQ5-C	39.84	17.38
08/10/91	AQ5	37.60	AQ5-C	36.47	-3.03
08/16/91	AQ5	50.33	AQ5-C	47.43	-5.77
08/22/91	AQ5	46.77	AQ5-C	43.42	-7.18
08/28/91	AQ5	26.64	AQ5-C	27.44	2.99
09/03/91	AQ5	84.13	AQ5-C	85.37	1.47
09/09/91	AQ5	23.96	AQ5-C	25.12	4.85
09/15/91	AQ5	33.72	AQ5-C	37.62	11.56
09/21/91	AQ5	57.24	AQ5-C	54.17	-5.37
09/27/91	AQ5	87.10	AQ5-C	83.84	-3.74
Number of Precision Checks					37
Number Samples < 20 ug/m3					2
Average % Difference					-9.90
Standard Deviation					9.95
Upper 95% Probability Limit					9.60
Lower 95% Probability Limit					-29.40

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 215. 216. 217. 218. 219. 220. 221. 222. 223. 224. 225. 226. 227. 228. 229. 230. 231. 232. 233. 234. 235. 236. 237. 238. 239. 240. 241. 242. 243. 244. 245. 246. 247. 248. 249. 250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. 262. 263. 264. 265. 266. 267. 268. 269. 270. 271. 272. 273. 274. 275. 276. 277. 278. 279. 280. 281. 282. 283. 284. 285. 286. 287. 288. 289. 290. 291. 292. 293. 294. 295. 296. 297. 298. 299. 300. 301. 302. 303. 304. 305. 306. 307. 308. 309. 310. 311. 312. 313. 314. 315. 316. 317. 318. 319. 320. 321. 322. 323. 324. 325. 326. 327. 328. 329. 330. 331. 332. 333. 334. 335. 336. 337. 338. 339. 340. 341. 342. 343. 344. 345. 346. 347. 348. 349. 350. 351. 352. 353. 354. 355. 356. 357. 358. 359. 360. 361. 362. 363. 364. 365. 366. 367. 368. 369. 370. 371. 372. 373. 374. 375. 376. 377. 378. 379. 380. 381. 382. 383. 384. 385. 386. 387. 388. 389. 390. 391. 392. 393. 394. 395. 396. 397. 398. 399. 400. 401. 402. 403. 404. 405. 406. 407. 408. 409. 410. 411. 412. 413. 414. 415. 416. 417. 418. 419. 420. 421. 422. 423. 424. 425. 426. 427. 428. 429. 430. 431. 432. 433. 434. 435. 436. 437. 438. 439. 440. 441. 442. 443. 444. 445. 446. 447. 448. 449. 450. 451. 452. 453. 454. 455. 456. 457. 458. 459. 460. 461. 462. 463. 464. 465. 466. 467. 468. 469. 470. 471. 472. 473. 474. 475. 476. 477. 478. 479. 480. 481. 482. 483. 484. 485. 486. 487. 488. 489. 490. 491. 492. 493. 494. 495. 496. 497. 498. 499. 500. 501. 502. 503. 504. 505. 506. 507. 508. 509. 510. 511. 512. 513. 514. 515. 516. 517. 518. 519. 520. 521. 522. 523. 524. 525. 526. 527. 528. 529. 530. 531. 532. 533. 534. 535. 536. 537. 538. 539. 540. 541. 542. 543. 544. 545. 546. 547. 548. 549. 550. 551. 552. 553. 554. 555. 556. 557. 558. 559. 560. 561. 562. 563. 564. 565. 566. 567. 568. 569. 570. 571. 572. 573. 574. 575. 576. 577. 578. 579. 580. 581. 582. 583. 584. 585. 586. 587. 588. 589. 590. 591. 592. 593. 594. 595. 596. 597. 598. 599. 600. 601. 602. 603. 604. 605. 606. 607. 608. 609. 610. 611. 612. 613. 614. 615. 616. 617. 618. 619. 620. 621. 622. 623. 624. 625. 626. 627. 628. 629. 630. 631. 632. 633. 634. 635. 636. 637. 638. 639. 640. 641. 642. 643. 644. 645. 646. 647. 648. 649. 650. 651. 652. 653. 654. 655. 656. 657. 658. 659. 660. 661. 662. 663. 664. 665. 666. 667. 668. 669. 670. 671. 672. 673. 674. 675. 676. 677. 678. 679. 680. 681. 682. 683. 684. 685. 686. 687. 688. 689. 690. 691. 692. 693. 694. 695. 696. 697. 698. 699. 700. 701. 702. 703. 704. 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723. 724. 725. 726. 727. 728. 729. 730. 731. 732. 733. 734. 735. 736. 737. 738. 739. 740. 741. 742. 743. 744. 745. 746. 747. 748. 749. 750. 751. 752. 753. 754. 755. 756. 757. 758. 759. 760. 761. 762. 763. 764. 765. 766. 767. 768. 769. 770. 771. 772. 773. 774. 775. 776. 777. 778. 779. 780. 781. 782. 783. 784. 785. 786. 787. 788. 789. 790. 791. 792. 793. 794. 795. 796. 797. 798. 799. 800. 801. 802. 803. 804. 805. 806. 807. 808. 809. 810. 811. 812. 813. 814. 815. 816. 817. 818. 819. 820. 821. 822. 823. 824. 825. 826. 827. 828. 829. 830. 831. 832. 833. 834. 835. 836. 837. 838. 839. 840.

[illegible]

**METALS Precision Calculations**  
**RMA FY 91**

| Date                        | Site        | AS     | CD     | CR     | CU     | PB     | ZN     |
|-----------------------------|-------------|--------|--------|--------|--------|--------|--------|
| 01/24/91                    | CAQ5, CAQ5A | LT CRL | LT CRL | LT CRL | -16.01 | -7.55  | -11.71 |
| 01/30/91                    | CAQ5, CAQ5A | LT CRL | LT CRL | LT CRL | 28.48  | -10.25 | 16.45  |
| 02/05/91                    | CAQ5, CAQ5A | LT CRL | LT CRL | LT CRL | 112.24 | LT CRL | -9.29  |
| 02/11/91                    | CAQ5, CAQ5A | LT CRL | LT CRL | LT CRL | 208.23 | LT CRL | -10.70 |
| 02/17/91                    | CAQ5, CAQ5A | LT CRL | LT CRL | LT CRL | 42.61  | LT CRL | -3.27  |
| 03/01/91                    | CAQ5, CAQ5A | LT CRL | LT CRL | LT CRL | 37.97  | LT CRL | -13.42 |
| 03/19/91                    | CAQ5, CAQ5A | LT CRL | LT CRL | LT CRL | -----  | LT CRL | -----  |
| 03/25/91                    | CAQ5, CAQ5A | LT CRL | LT CRL | LT CRL | -----  | LT CRL | -----  |
| 04/06/91                    | CAQ5, CAQ5A | LT CRL | LT CRL | LT CRL | -----  | LT CRL | LT CRL |
| 05/06/91                    | CAQ5, CAQ5A | LT CRL | LT CRL | LT CRL | 78.57  | LT CRL | 106.90 |
| 05/12/91                    | CAQ5, CAQ5A | LT CRL | LT CRL | LT CRL | 73.79  | LT CRL | LT CRL |
| 05/18/91                    | CAQ5, CAQ5A | -0.95  | LT CRL | LT CRL | 15.02  | LT CRL | -28.32 |
| 05/24/91                    | CAQ5, CAQ5A | LT CRL | LT CRL | LT CRL | 85.61  | LT CRL | -14.04 |
| 05/30/91                    | CAQ5, CAQ5A | LT CRL | LT CRL | LT CRL | 109.13 | LT CRL | -12.07 |
| 06/05/91                    | CAQ5, CAQ5A | LT CRL | LT CRL | LT CRL | 173.74 | LT CRL | -15.14 |
| 06/11/91                    | CAQ5, CAQ5A | LT CRL | LT CRL | LT CRL | 262.56 | LT CRL | -4.07  |
| 06/17/91                    | CAQ5, CAQ5A | LT CRL | LT CRL | LT CRL | 203.06 | LT CRL | -9.43  |
| 07/03/91                    | CAQ5, CAQ5A | LT CRL | LT CRL | LT CRL | 94.52  | LT CRL | -26.43 |
| Number Precision Checks     |             | 18     | 18     | 18     | 15     | 18     | 16     |
| Number Samples LT CRL       |             | 17     | 18     | 18     | 0      | 16     | 2      |
| Average % Difference        |             | -0.95  | -----  | -----  | 100.63 | -8.90  | -2.47  |
| Standard Deviation          |             | -----  | -----  | -----  | 79.62  | 1.91   | 33.19  |
| Upper 95% Probability Limit |             | -----  | -----  | -----  | 240.84 | 3.17   | 56.31  |
| Lower 95% Probability Limit |             | -----  | -----  | -----  | -39.57 | -20.96 | -61.24 |

VOC Precision Calculations  
RMA FY 91

| Date                        | Site                   | 111TCE | 112TCE | 11DCLE | 12DCE  | 12DCLE | BCHPD  | C6H6   | CCl4   | CH2CL2 | CHCL3  |
|-----------------------------|------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 01/30/91                    | CFC1, CFC1C            | -23.14 | LT CRL | LT CRL | LT CRL | LT CRL | LT CRL | -42.54 | -24.84 | —      | -36.25 |
| 02/05/91                    | CFC1, CFC1C            | 17.75  | LT CRL | LT CRL | LT CRL | LT CRL | LT CRL | 13.61  | 15.17  | —      | 13.75  |
| 02/11/91                    | CFC1, CFC1C            | 39.08  | LT CRL | LT CRL | LT CRL | LT CRL | LT CRL | 74.55  | 48.51  | —      | 33.92  |
| 02/17/91                    | CFC1, CFC1C            | 69.19  | LT CRL | LT CRL | LT CRL | LT CRL | LT CRL | 205.03 | 81.25  | —      | 81.73  |
| 02/23/91                    | CFC1, CFC1C            | LT CRL | LT CRL | LT CRL | LT CRL | LT CRL | LT CRL | 2.79   | 12.42  | —      | —      |
| 03/07/91                    | CFC1, CFC1C            | LT CRL | LT CRL | LT CRL | LT CRL | LT CRL | LT CRL | LT CRL | LT CRL | —      | LT CRL |
| 03/13/91                    | CFC1, CFC1C            | 195.45 | LT CRL | LT CRL | LT CRL | -4.33  | LT CRL | 0.00   | 26.22  | —      | -6.13  |
| 03/19/91                    | CFC1, CFC1C            | 3.10   | LT CRL | LT CRL | LT CRL | LT CRL | LT CRL | 83.08  | 23.99  | —      | 1.35   |
| 03/31/91                    | CFC1, CFC1C            | -65.58 | LT CRL | LT CRL | LT CRL | LT CRL | LT CRL | 64.34  | -16.71 | —      | 15.45  |
| 04/06/91                    | CFC1, CFC1C            | 52.64  | LT CRL | LT CRL | LT CRL | LT CRL | LT CRL | 67.88  | 59.88  | —      | -25.69 |
| 04/12/91                    | CFC1, CFC1C            | 58.71  | LT CRL | LT CRL | LT CRL | 102.63 | LT CRL | 93.86  | 53.99  | —      | 57.02  |
| 04/18/91                    | CFC1, CFC1C            | 94.27  | LT CRL | LT CRL | LT CRL | 71.43  | LT CRL | 58.93  | 162.74 | —      | -20.17 |
| 04/24/91                    | CFC1, CFC1C            | -39.56 | LT CRL | LT CRL | LT CRL | LT CRL | LT CRL | 8.41   | -15.41 | —      | -20.83 |
| 04/30/91                    | CFC1, CFC1C            | 353.37 | LT CRL | LT CRL | LT CRL | LT CRL | LT CRL | 728.57 | 416.24 | —      | LT CRL |
| 05/06/91                    | CFC1, CFC1C            | -66.21 | LT CRL | LT CRL | LT CRL | LT CRL | LT CRL | -68.04 | -65.56 | —      | -66.30 |
| 05/12/91                    | CFC1, CFC1C            | -40.83 | LT CRL | LT CRL | LT CRL | LT CRL | LT CRL | -21.51 | -32.43 | —      | -55.19 |
| 05/18/91                    | CFC1, CFC1C            | 53.69  | LT CRL | LT CRL | LT CRL | LT CRL | LT CRL | -12.72 | 8.73   | —      | LT CRL |
| 05/24/91                    | CFC1, CFC1C            | 23.15  | LT CRL | LT CRL | LT CRL | LT CRL | LT CRL | 14.29  | 19.14  | —      | 11.27  |
| 05/30/91                    | CFC1, CFC1C            | 104.51 | LT CRL | LT CRL | LT CRL | LT CRL | LT CRL | 175.05 | 91.19  | —      | 58.64  |
| 06/05/91                    | CFC1, CFC1C            | -46.22 | LT CRL | LT CRL | LT CRL | LT CRL | LT CRL | 5.21   | -54.44 | —      | -7.69  |
| 06/11/91                    | CFC1, CFC1C            | 20.00  | LT CRL | LT CRL | LT CRL | LT CRL | LT CRL | -16.01 | -8.64  | —      | 35.62  |
| 06/13/91                    | CFC1, CFC1C            | -42.08 | LT CRL | LT CRL | LT CRL | LT CRL | LT CRL | -0.74  | -39.51 | -72.76 | LT CRL |
| 06/17/91                    | CFC1, CFC1C            | 100.84 | LT CRL | LT CRL | LT CRL | LT CRL | LT CRL | -6.31  | -15.33 | —      | LT CRL |
| 06/19/91                    | CFC1S, CFC1SC          | 84.25  | LT CRL | LT CRL | LT CRL | LT CRL | LT CRL | -1.88  | 87.90  | -7.13  | 9.13   |
| 06/21/91                    | CAQ5, CAQ5C            | 11.25  | LT CRL | LT CRL | LT CRL | LT CRL | LT CRL | -2.19  | LT CRL | 22.60  | LT CRL |
| 06/21/91                    | CQI1, CQI1C            | 49.32  | LT CRL | LT CRL | LT CRL | LT CRL | LT CRL | 35.18  | 44.32  | —      | 28.26  |
| 06/23/91                    | CFC1, CFC1C            | 1.04   | LT CRL | LT CRL | LT CRL | LT CRL | LT CRL | -3.53  | 3.98   | —      | 8.61   |
| 06/27/91                    | CAQ01079/<br>CAQ01079C | -73.80 | LT CRL | LT CRL | LT CRL | LT CRL | LT CRL | -88.66 | -58.90 | —      | LT CRL |
| 06/29/91                    | CFC1, CFC1C            | 1.25   | LT CRL | LT CRL | LT CRL | LT CRL | LT CRL | 13.87  | -8.23  | 129.23 | LT CRL |
| 07/05/91                    | CFC1, CFC1C            | 20.89  | LT CRL | LT CRL | LT CRL | LT CRL | LT CRL | 7.30   | 13.98  | LT CRL | 44.72  |
| 07/11/91                    | CFC1, CFC1C            | 4.71   | LT CRL | LT CRL | LT CRL | LT CRL | LT CRL | 91.91  | 2.29   | 15.69  | LT CRL |
| 07/17/91                    | CFC1, CFC1C            | 1.44   | LT CRL | LT CRL | LT CRL | LT CRL | LT CRL | 4.48   | -5.09  | 100.00 | LT CRL |
| 07/23/91                    | CFC1, CFC1C            | 21.52  | LT CRL | LT CRL | LT CRL | LT CRL | LT CRL | -4.20  | 15.71  | 69.23  | 0.39   |
| 07/29/91                    | CFC1, CFC1C            | 40.95  | LT CRL | LT CRL | LT CRL | LT CRL | LT CRL | -14.86 | 20.45  | —      | LT CRL |
| 08/04/91                    | CFC1, CFC1C            | -5.87  | LT CRL | LT CRL | LT CRL | LT CRL | LT CRL | -9.30  | -10.69 | -31.19 | 0.94   |
| 08/10/91                    | CFC1, CFC1C            | -23.75 | LT CRL | LT CRL | LT CRL | LT CRL | LT CRL | 8.45   | -19.69 | -75.75 | -23.57 |
| 08/16/91                    | CFC1, CFC1C            | -23.24 | LT CRL | LT CRL | LT CRL | LT CRL | LT CRL | -15.94 | -13.77 | —      | -16.55 |
| 08/22/91                    | CFC1, CFC1C            | -7.63  | LT CRL | LT CRL | LT CRL | LT CRL | LT CRL | 82.34  | -53.98 | —      | 51.92  |
| 08/28/91                    | CFC1, CFC1C            | 62.79  | LT CRL | LT CRL | LT CRL | LT CRL | LT CRL | -9.92  | 3.81   | 215.71 | LT CRL |
| 09/03/91                    | CFC1, CFC1C            | 2.40   | LT CRL | LT CRL | LT CRL | LT CRL | LT CRL | -3.85  | 3.42   | —      | -16.42 |
| 09/08/91                    | CFC1, CFC1C            | 0.12   | LT CRL | LT CRL | LT CRL | LT CRL | LT CRL | 3.12   | 0.51   | -5.80  | -14.58 |
| 09/14/91                    | CFC1, CFC1C            | 9.30   | LT CRL | LT CRL | LT CRL | LT CRL | LT CRL | -5.96  | 1.02   | —      | 9.40   |
| 09/21/91                    | CFC1, CFC1C            | LT CRL | LT CRL | LT CRL | LT CRL | LT CRL | LT CRL | LT CRL | LT CRL | —      | LT CRL |
| 09/27/91                    | CFC1, CFC1C            | -60.04 | LT CRL | LT CRL | LT CRL | LT CRL | LT CRL | -69.19 | -62.63 | LT CRL | -52.88 |
| Number of Precision Checks  |                        | 44     | 44     | 44     | 44     | 44     | 44     | 44     | 44     | 13     | 43     |
| Number Samples LT CRL       |                        | 3      | 44     | 44     | 44     | 41     | 44     | 2      | 3      | 2      | 13     |
| Average % Difference        |                        | 23.88  | —      | —      | —      | 56.58  | —      | 34.40  | 17.34  | 32.71  | 3.33   |
| Standard Deviation          |                        | 41.00  | —      | —      | —      | 3.00   | —      | 42.00  | 41.00  | 11.00  | 30.00  |
| Upper 95% Probability Limit |                        | 104.24 | —      | —      | —      | 65.34  | —      | 116.72 | 97.70  | 54.27  | 62.13  |
| Lower 95% Probability Limit |                        | -56.48 | —      | —      | —      | 47.82  | —      | -47.92 | -63.02 | 11.15  | -55.47 |



VOC Precision Calculations  
RMA FY 91

| Date                        | Site          | CLC6H5   | DCPD   | DMDS   | ETC6H5    | MEC6H5    | MIBK   | TCLEE   | TRCLE   | XYLEN  |
|-----------------------------|---------------|----------|--------|--------|-----------|-----------|--------|---------|---------|--------|
| 01/30/91                    | CFC1, CFC1C   | LT CRL   | LT CRL | LT CRL | LT CRL    | -26.04167 | LT CRL | -56.25  | -34.05  | LT CRL |
| 02/05/91                    | CFC1, CFC1C   | LT CRL   | LT CRL | LT CRL | 3.679654  | -38.32599 | LT CRL | 25.5973 | LT CRL  | LT CRL |
| 02/11/91                    | CFC1, CFC1C   | LT CRL   | LT CRL | LT CRL | LT CRL    | LT CRL    | LT CRL | -33.828 | LT CRL  | LT CRL |
| 02/17/91                    | CFC1, CFC1C   | LT CRL   | LT CRL | LT CRL | 270.922   | LT CRL    | LT CRL | 393.985 | LT CRL  | LT CRL |
| 02/23/91                    | CFC1, CFC1C   | LT CRL   | LT CRL | LT CRL | -64.01274 | LT CRL    | LT CRL | -29.82  | 2.60146 | LT CRL |
| 03/07/91                    | CFC1, CFC1C   | LT CRL   | LT CRL | LT CRL | LT CRL    | -52.40838 | LT CRL | LT CRL  | LT CRL  | LT CRL |
| 03/13/91                    | CFC1, CFC1C   | LT CRL   | LT CRL | LT CRL | -1.47929  | -2.109705 | LT CRL | -1.9651 | LT CRL  | LT CRL |
| 03/19/91                    | CFC1, CFC1C   | LT CRL   | LT CRL | LT CRL | LT CRL    | 16.216216 | LT CRL | 6.99088 | LT CRL  | LT CRL |
| 03/31/91                    | CFC1, CFC1C   | LT CRL   | LT CRL | LT CRL | 34.19118  | 51.333333 | LT CRL | 52.6971 | LT CRL  | LT CRL |
| 04/06/91                    | CFC1, CFC1C   | LT CRL   | LT CRL | LT CRL | 15.82915  | LT CRL    | LT CRL | 71.3604 | LT CRL  | LT CRL |
| 04/12/91                    | CFC1, CFC1C   | LT CRL   | LT CRL | LT CRL | LT CRL    | 80        | LT CRL | 64.5503 | LT CRL  | LT CRL |
| 04/18/91                    | CFC1, CFC1C   | LT CRL   | LT CRL | LT CRL | LT CRL    | 61.202186 | LT CRL | 62.4161 | LT CRL  | LT CRL |
| 04/24/91                    | CFC1, CFC1C   | LT CRL   | LT CRL | LT CRL | 29.38931  | 19.565217 | LT CRL | 24.6334 | LT CRL  | LT CRL |
| 04/30/91                    | CFC1, CFC1C   | LT CRL   | LT CRL | LT CRL | LT CRL    | 778.57143 | LT CRL | LT CRL  | LT CRL  | LT CRL |
| 05/06/91                    | CFC1, CFC1C   | LT CRL   | LT CRL | LT CRL | LT CRL    | -72.84615 | LT CRL | LT CRL  | LT CRL  | LT CRL |
| 05/12/91                    | CFC1, CFC1C   | LT CRL   | LT CRL | LT CRL | LT CRL    | 25.274725 | LT CRL | -4.5714 | LT CRL  | LT CRL |
| 05/18/91                    | CFC1, CFC1C   | 6.425041 | LT CRL | LT CRL | LT CRL    | -8.542714 | LT CRL | 22.6381 | LT CRL  | LT CRL |
| 05/24/91                    | CFC1, CFC1C   | LT CRL   | LT CRL | LT CRL | 41.64524  | LT CRL    | LT CRL | 12.7907 | LT CRL  | LT CRL |
| 05/30/91                    | CFC1, CFC1C   | LT CRL   | LT CRL | LT CRL | 233.8028  | LT CRL    | LT CRL | 237.748 | LT CRL  | LT CRL |
| 06/05/91                    | CFC1, CFC1C   | LT CRL   | LT CRL | LT CRL | 19.2429   | 8.7272727 | LT CRL | 6.89076 | LT CRL  | LT CRL |
| 06/11/91                    | CFC1, CFC1C   | LT CRL   | LT CRL | LT CRL | 9.329446  | 1.1538462 | LT CRL | 7.59259 | LT CRL  | LT CRL |
| 06/13/91                    | CFC1, CFC1C   | LT CRL   | LT CRL | LT CRL | 17.46479  | -24.77064 | LT CRL | -0.4862 | LT CRL  | LT CRL |
| 06/17/91                    | CFC1, CFC1C   | LT CRL   | LT CRL | LT CRL | 2.364066  | 12.703583 | LT CRL | 15.9445 | LT CRL  | LT CRL |
| 06/19/91                    | CFC1S, CFC1SC | LT CRL   | LT CRL | LT CRL | -1.195219 | 4.2168675 | LT CRL | LT CRL  | LT CRL  | LT CRL |
| 06/21/91                    | CAQ5, CAQ5C   | LT CRL   | LT CRL | LT CRL | 3.291139  | 16.470588 | LT CRL | 20.8904 | LT CRL  | LT CRL |
| 06/21/91                    | CQ11, CQ11C   | LT CRL   | LT CRL | LT CRL | 4.347826  | -11.85185 | LT CRL | -8.1301 | LT CRL  | LT CRL |
| 06/23/91                    | CFC1, CFC1C   | LT CRL   | LT CRL | LT CRL | -4.347826 | 37.837838 | LT CRL | 18.4211 | LT CRL  | LT CRL |
| 06/27/91                    | CAQ01079      | LT CRL   | LT CRL | LT CRL | LT CRL    | LT CRL    | LT CRL | LT CRL  | LT CRL  | LT CRL |
| 06/29/91                    | CAQ01079      | LT CRL   | LT CRL | LT CRL | LT CRL    | LT CRL    | LT CRL | LT CRL  | LT CRL  | LT CRL |
| 06/29/91                    | CFC1, CFC1C   | LT CRL   | LT CRL | LT CRL | 9.654179  | LT CRL    | LT CRL | -12.168 | LT CRL  | LT CRL |
| 07/05/91                    | CFC1, CFC1C   | LT CRL   | LT CRL | LT CRL | LT CRL    | -32.22222 | LT CRL | -29.368 | LT CRL  | LT CRL |
| 07/11/91                    | CFC1, CFC1C   | LT CRL   | LT CRL | LT CRL | LT CRL    | 2781.3559 | LT CRL | LT CRL  | LT CRL  | LT CRL |
| 07/17/91                    | CFC1, CFC1C   | LT CRL   | LT CRL | LT CRL | -46.54179 | LT CRL    | LT CRL | -45.85  | LT CRL  | LT CRL |
| 07/23/91                    | CFC1, CFC1C   | LT CRL   | LT CRL | LT CRL | LT CRL    | -9.176225 | LT CRL | LT CRL  | LT CRL  | LT CRL |
| 07/29/91                    | CFC1, CFC1C   | LT CRL   | LT CRL | LT CRL | -0.357782 | LT CRL    | LT CRL | 31.7747 | LT CRL  | LT CRL |
| 08/04/91                    | CFC1, CFC1C   | LT CRL   | LT CRL | LT CRL | 151.6129  | 181.92033 | LT CRL | 239.939 | LT CRL  | LT CRL |
| 08/10/91                    | CFC1, CFC1C   | LT CRL   | LT CRL | LT CRL | LT CRL    | 125.53191 | LT CRL | 98.6395 | LT CRL  | LT CRL |
| 08/16/91                    | CFC1, CFC1C   | LT CRL   | LT CRL | LT CRL | 74.71783  | LT CRL    | LT CRL | 14.7826 | LT CRL  | LT CRL |
| 08/22/91                    | CFC1, CFC1C   | LT CRL   | LT CRL | LT CRL | 485.6164  | LT CRL    | LT CRL | 396.815 | LT CRL  | LT CRL |
| 08/28/91                    | CFC1, CFC1C   | LT CRL   | LT CRL | LT CRL | 82.7957   | 27.652733 | LT CRL | 6.45905 | LT CRL  | LT CRL |
| 09/03/91                    | CFC1, CFC1C   | LT CRL   | LT CRL | LT CRL | -30.08596 | -35.2459  | LT CRL | -5.9211 | LT CRL  | LT CRL |
| 09/08/91                    | CFC1, CFC1C   | LT CRL   | LT CRL | LT CRL | 8.494208  | 13.131313 | LT CRL | 28.3525 | LT CRL  | LT CRL |
| 09/14/91                    | CFC1, CFC1C   | LT CRL   | LT CRL | LT CRL | LT CRL    | -10.88435 | LT CRL | -6.9959 | LT CRL  | LT CRL |
| 09/21/91                    | CFC1, CFC1C   | LT CRL   | LT CRL | LT CRL | LT CRL    | LT CRL    | LT CRL | LT CRL  | LT CRL  | LT CRL |
| 09/27/91                    | CFC1, CFC1C   | LT CRL   | LT CRL | LT CRL | -83.07692 | LT CRL    | LT CRL | -78.304 | LT CRL  | LT CRL |
| Number of Precision Checks  |               | 44       | 44     | 44     | 44        | 44        | 44     | 44      | 44      | 44     |
| Number Samples LT CRL       |               | 43       | 44     | 44     | 17        | 14        | 44     | 8       | 42      | 44     |
| Average % Difference        |               | 6.43     | -----  | -----  | 46.94     | 130.61    | -----  | 43.01   | -15.72  | -----  |
| Standard Deviation          |               | -----    | -----  | -----  | 27.00     | 30.00     | -----  | 36.00   | 2.00    | -----  |
| Upper 95% Probability Limit |               | -----    | -----  | -----  | 93.00     | 189.41    | -----  | 113.57  | -3.10   | -----  |
| Lower 95% Probability Limit |               | -----    | -----  | -----  | 0.87      | 71.81     | -----  | -27.55  | -28.35  | -----  |

OCP Precision Calculations  
RMA FY 91

| Date                        | Site        | ALDRN  | CLDAN  | DLDRN  | ENDRN  | ISODR  | PPDDE  | PPDDT  |
|-----------------------------|-------------|--------|--------|--------|--------|--------|--------|--------|
| 01/24/91                    | CFC1, CFC1C | LT CRL | LT CRL | LT CRL | LT CRL | LT CRL | LT CRL | LT CRL |
| 01/30/91                    | CFC1, CFC1C | LT CRL | LT CRL | LT CRL | LT CRL | LT CRL | LT CRL | LT CRL |
| 02/05/91                    | CFC1, CFC1C | LT CRL | LT CRL | -7.97  | LT CRL | LT CRL | LT CRL | LT CRL |
| 02/11/91                    | CFC1, CFC1C | LT CRL | LT CRL | 16.25  | LT CRL | LT CRL | LT CRL | LT CRL |
| 02/17/91                    | CFC1, CFC1C | LT CRL | LT CRL | 0.90   | LT CRL | LT CRL | LT CRL | LT CRL |
| 02/23/91                    | CFC1, CFC1C | LT CRL | LT CRL | 5.23   | LT CRL | LT CRL | LT CRL | LT CRL |
| 03/07/91                    | CFC1, CFC1C | LT CRL | LT CRL | LT CRL | LT CRL | LT CRL | LT CRL | LT CRL |
| 03/13/91                    | CFC1, CFC1C | LT CRL | LT CRL | LT CRL | LT CRL | LT CRL | LT CRL | LT CRL |
| 03/19/91                    | CFC1, CFC1C | LT CRL | LT CRL | LT CRL | LT CRL | LT CRL | LT CRL | LT CRL |
| 03/25/91                    | CFC1, CFC1C | LT CRL | LT CRL | LT CRL | LT CRL | LT CRL | LT CRL | LT CRL |
| 03/31/91                    | CFC1, CFC1C | LT CRL | LT CRL | LT CRL | LT CRL | LT CRL | LT CRL | LT CRL |
| 04/12/91                    | CFC1, CFC1C | LT CRL | LT CRL | LT CRL | LT CRL | LT CRL | LT CRL | LT CRL |
| 04/18/91                    | CFC1, CFC1C | LT CRL | LT CRL | LT CRL | LT CRL | LT CRL | LT CRL | LT CRL |
| 04/24/91                    | CFC1, CFC1C | LT CRL | LT CRL | 0.00   | LT CRL | LT CRL | LT CRL | LT CRL |
| 05/06/91                    | CFC1, CFC1C | LT CRL | LT CRL | 7.58   | LT CRL | LT CRL | LT CRL | LT CRL |
| 05/18/91                    | CFC1, CFC1C | LT CRL | LT CRL | 2.06   | LT CRL | LT CRL | LT CRL | LT CRL |
| 05/24/91                    | CFC1, CFC1C | LT CRL | 1.77   | 0.26   | -3.72  | LT CRL | LT CRL | LT CRL |
| 05/30/91                    | CFC1, CFC1C | LT CRL | LT CRL | -6.37  | -4.42  | LT CRL | LT CRL | LT CRL |
| 06/05/91                    | CFC1, CFC1C | -1.50  | 0.65   | -3.20  | 2.28   | LT CRL | LT CRL | LT CRL |
| 06/11/91                    | CFC1, CFC1C | 53.86  | -8.62  | 5.00   | -6.50  | LT CRL | LT CRL | LT CRL |
| 06/13/91                    | CFC1, CFC1C | LT CRL | -10.71 | -18.62 | -14.81 | LT CRL | LT CRL | LT CRL |
| 06/17/91                    | CFC1, CFC1C | LT CRL | LT CRL | 4.76   | LT CRL | LT CRL | LT CRL | LT CRL |
| 06/19/91                    | CFC1, CFC1C | LT CRL | -1.04  | -0.21  | -3.88  | LT CRL | -3.91  | 0.55   |
| 06/29/91                    | CFC1, CFC1C | LT CRL | -1.92  | -4.79  | -4.91  | LT CRL | LT CRL | LT CRL |
| 07/05/91                    | CFC1, CFC1C | LT CRL | LT CRL | -6.40  | LT CRL | LT CRL | LT CRL | LT CRL |
| 07/11/91                    | CFC1, CFC1C | LT CRL | 9.29   | 17.71  | 4.75   | LT CRL | LT CRL | LT CRL |
| 07/17/91                    | CFC1, CFC1C | LT CRL | -7.84  | 3.65   | -8.10  | LT CRL | LT CRL | LT CRL |
| 07/23/91                    | CFC1, CFC1C | LT CRL | LT CRL | 3.60   | LT CRL | LT CRL | LT CRL | LT CRL |
| 07/29/91                    | CFC1, CFC1C | LT CRL | -3.78  | -8.94  | -8.34  | LT CRL | LT CRL | LT CRL |
| 08/04/91                    | CFC1, CFC1C | -7.91  | 1.97   | 5.88   | 2.42   | LT CRL | LT CRL | LT CRL |
| 08/10/91                    | CFC1, CFC1C | LT CRL | -23.45 | -20.00 | -19.12 | LT CRL | LT CRL | LT CRL |
| 08/16/91                    | CFC1, CFC1C | LT CRL | -0.82  | -3.21  | LT CRL | LT CRL | LT CRL | LT CRL |
| 08/22/91                    | CFC1, CFC1C | LT CRL | 3.93   | 7.92   | LT CRL | LT CRL | LT CRL | LT CRL |
| 08/28/91                    | CFC1, CFC1C | 9.17   | 8.23   | 11.11  | 11.30  | LT CRL | LT CRL | LT CRL |
| 09/03/91                    | CFC1, CFC1C | LT CRL | LT CRL | -35.60 | LT CRL | LT CRL | LT CRL | LT CRL |
| 09/10/91                    | CFC1, CFC1C | LT CRL | LT CRL | -4.29  | LT CRL | LT CRL | LT CRL | LT CRL |
| 09/14/91                    | CFC1, CFC1C | LT CRL | LT CRL | 1.08   | LT CRL | LT CRL | LT CRL | LT CRL |
| 09/23/91                    | CFC1, CFC1C | LT CRL | LT CRL | 4.98   | LT CRL | LT CRL | LT CRL | LT CRL |
| 09/27/91                    | CFC1, CFC1C | LT CRL | LT CRL | 10.28  | LT CRL | LT CRL | LT CRL | LT CRL |
| 06/21/91                    | CFC1, CFC1C | LT CRL | LT CRL | 55.54  | LT CRL | LT CRL | LT CRL | LT CRL |
| 07/17/91                    | CFC1, CFC1C | LT CRL | 19.00  | 10.97  | 16.90  | LT CRL | LT CRL | LT CRL |
| Number of Precision Checks  |             | 41     | 41     | 41     | 41     | 41     | 41     | 41     |
| Number Samples LT CRL       |             | 37     | 26     | 9      | 27     | 41     | 40     | 40     |
| Average % Difference        |             | 53.63  | -13.35 | 55.15  | -36.16 | -----  | -3.91  | 0.55   |
| Standard Deviation          |             | 27.88  | 9.81   | 14.49  | 9.56   | -----  | -----  | -----  |
| Upper 95% Probability Limit |             | 119.22 | 3.92   | 83.54  | -19.22 | -----  | -----  | -----  |
| Lower 95% Probability Limit |             | -11.96 | -30.62 | 26.75  | -53.09 | -----  | -----  | -----  |

**Carbon Monoxide Precision Calculations  
FY 91 RMA**

| Date                        | Analyzer<br>Response<br>(PPM) | Calibration<br>Output<br>(PPM) | %<br>Difference |
|-----------------------------|-------------------------------|--------------------------------|-----------------|
| 02/07/91                    | 8.6                           | 9.2                            | -6.52           |
| 02/21/91                    | 8.7                           | 9.2                            | -5.43           |
| 03/07/91                    | 8.9                           | 9.2                            | -3.26           |
| 03/21/91                    | 8.5                           | 9.2                            | -7.61           |
| 04/04/91                    | 8.8                           | 9.2                            | -4.35           |
| 04/18/91                    | 8.5                           | 9.2                            | -7.61           |
| 05/03/91                    | 8.6                           | 9.2                            | -6.52           |
| 05/16/91                    | 8.7                           | 9.2                            | -5.43           |
| 05/30/91                    | 8.6                           | 9.2                            | -6.52           |
| 06/13/91                    | 8.6                           | 9.2                            | -6.52           |
| 06/28/91                    | 8.9                           | 9.3                            | -4.30           |
| 07/11/91                    | 9.7                           | 9.3                            | 4.30            |
| 07/17/91                    | 8.8                           | 9.3                            | -5.38           |
| 07/24/91                    | 8.9                           | 9.3                            | -4.30           |
| 07/26/92                    | 8.8                           | 9.3                            | -5.38           |
| 08/06/91                    | 8.6                           | 9.3                            | -7.53           |
| 08/20/91                    | 8.6                           | 9.3                            | -7.53           |
| 09/03/91                    | 8.6                           | 9.3                            | -7.53           |
| 09/17/91                    | 8.6                           | 9.3                            | -7.53           |
| 09/24/91                    | 8.7                           | 9.3                            | -6.45           |
| Number of Precision Checks  |                               |                                | 20              |
| Average % Difference        |                               |                                | -5.57           |
| Standard Deviation          |                               |                                | 2.67            |
| Upper 95% Probabilty Limit  |                               |                                | -0.95           |
| Lower 95% probability Limit |                               |                                | -10.19          |

**Ozone Precision Calculations**  
**RMA FY 91**

| Date                        | Analyzer<br>Response<br>(PPB) | Calibrator<br>Output<br>(PPB) | %<br>Difference |
|-----------------------------|-------------------------------|-------------------------------|-----------------|
| 02/07/91                    | 90.6                          | 89.7                          | 1.00            |
| 02/21/91                    | 92.7                          | 90.0                          | 3.00            |
| 03/07/91                    | 94.0                          | 90.0                          | 4.44            |
| 03/21/91                    | 91.3                          | 90.0                          | 1.44            |
| 04/04/91                    | 92.3                          | 89.8                          | 2.78            |
| 04/18/91                    | 89.5                          | 89.8                          | -0.33           |
| 05/03/91                    | 90.2                          | 89.3                          | 1.01            |
| 05/16/91                    | 92.7                          | 89.8                          | 3.23            |
| 05/30/91                    | 90.2                          | 90.2                          | 0.00            |
| 06/13/91                    | 78.7                          | 89.7                          | -12.26          |
| 06/27/91                    | 89.5                          | 88.7                          | 0.90            |
| 07/09/91                    | 79.1                          | 90.2                          | -12.31          |
| 07/10/91                    | 81.6                          | 89.7                          | -9.03           |
| 07/11/91                    | 91.1                          | 89.8                          | 1.45            |
| 07/15/91                    | 89.3                          | 89.7                          | -0.45           |
| 07/17/91                    | 92.5                          | 89.8                          | 3.01            |
| 07/24/91                    | 91.8                          | 89.7                          | 2.34            |
| 07/26/91                    | 89.1                          | 89.2                          | -0.11           |
| 08/06/91                    | 91.0                          | 89.7                          | 1.45            |
| 08/20/91                    | 92.3                          | 90.0                          | 2.56            |
| 09/03/91                    | 90.0                          | 89.8                          | 0.22            |
| 09/17/91                    | 90.5                          | 89.5                          | 1.12            |
| 09/24/91                    | 91.0                          | 89.2                          | 2.02            |
| Number of Precision Checks  |                               |                               | 23              |
| Average % Difference        |                               |                               | -0.11           |
| Standard Deviation          |                               |                               | 4.60            |
| Upper 95% Probability Limit |                               |                               | 7.79            |
| Lower 95% Probability Limit |                               |                               | -8.01           |

**Sulfur Dioxide Precision Calculations**  
**RMA FY 91**

| Date                        | Analyzer<br>Response<br>(PPB) | Calibrator<br>Output<br>(PPB) | %<br>Difference |
|-----------------------------|-------------------------------|-------------------------------|-----------------|
| 02/07/91                    | 94.7                          | 99.5                          | -4.82           |
| 02/13/91                    | 98.4                          | 99.5                          | -1.11           |
| 03/07/91                    | 100.8                         | 99.5                          | 1.31            |
| 03/21/91                    | 93.3                          | 99.5                          | -6.23           |
| 04/04/91                    | 95.7                          | 99.5                          | -3.82           |
| 04/18/91                    | 95.7                          | 99.5                          | -3.82           |
| 05/03/91                    | 98.1                          | 99.5                          | -1.41           |
| 05/16/91                    | 95.7                          | 99.5                          | -3.82           |
| 05/30/91                    | 98.0                          | 99.5                          | -1.51           |
| 06/13/91                    | 97.3                          | 99.5                          | -2.21           |
| 06/27/91                    | 98.4                          | 100.6                         | -2.19           |
| 07/11/91                    | 99.0                          | 100.6                         | -1.59           |
| 07/24/91                    | 100.7                         | 102.7                         | -1.95           |
| 07/26/91                    | 100.7                         | 102.7                         | -1.95           |
| 08/06/91                    | 96.3                          | 102.7                         | -6.23           |
| 08/20/91                    | 98.4                          | 102.7                         | -4.19           |
| 09/03/91                    | 98.0                          | 102.7                         | -4.58           |
| 09/17/91                    | 99.1                          | 102.7                         | -3.51           |
| 09/24/91                    | 99.0                          | 102.7                         | -3.60           |
| Number of Precision Checks  |                               |                               | 19              |
| Average % Difference        |                               |                               | -3.01           |
| Standard Deviation          |                               |                               | 1.87            |
| Upper 95% Probability Limit |                               |                               | 0.24            |
| Lower 95% Probability Limit |                               |                               | -6.26           |

**Nitrogen Oxides Precision Calculations  
RMA FY 91**

| Date                        | Analyzer<br>Response<br>(PPB) | Calibrator<br>Output<br>(PPB) | %<br>Difference |
|-----------------------------|-------------------------------|-------------------------------|-----------------|
| 02/07/91                    | 92.3                          | 98.5                          | -6.29           |
| 02/21/91                    | 97.4                          | 98.5                          | -1.12           |
| 03/07/91                    | 108.8                         | 98.5                          | 10.46           |
| 03/21/91                    | 93.7                          | 98.5                          | -4.87           |
| 04/04/91                    | 100.0                         | 98.5                          | 1.52            |
| 04/18/91                    | 101.7                         | 98.5                          | 3.25            |
| 05/03/91                    | 94.0                          | 98.5                          | -4.57           |
| 05/16/91                    | 93.7                          | 98.5                          | -4.87           |
| 05/31/91                    | 93.4                          | 98.5                          | -5.18           |
| 06/13/91                    | 97.0                          | 98.5                          | -1.52           |
| 06/27/91                    | 92.7                          | 99.6                          | -6.93           |
| 07/11/91                    | 96.7                          | 99.6                          | -2.91           |
| 07/24/91                    | 101.0                         | 101.9                         | -0.88           |
| 07/26/91                    | 95.3                          | 101.9                         | -6.48           |
| 08/06/91                    | 94.9                          | 101.9                         | -6.87           |
| 08/20/91                    | 91.3                          | 101.9                         | -10.40          |
| 09/03/91                    | 96.3                          | 101.9                         | -5.50           |
| 09/07/91                    | 95.7                          | 101.9                         | -6.08           |
| 09/24/91                    | 94.7                          | 101.9                         | -7.07           |
| Number of Precision Checks  |                               |                               | 19              |
| Average % Difference        |                               |                               | -3.49           |
| Standard Deviation          |                               |                               | 4.72            |
| Upper 95% Probability Limit |                               |                               | 4.69            |
| Lower 95% Probability Limit |                               |                               | -11.67          |

G2 DAILY ZERO AND SPAN DATA FOR  
CONTINUOUS GASEOUS MONITORS

Daily Zero Values from January 17, 1991 - September 30, 1991

| Month | Calendar<br>Day | Julian<br>Day | O3<br>ppm | CO<br>ppm | SO2<br>ppm | NO<br>ppm | NO2<br>ppm | NOx<br>ppm |
|-------|-----------------|---------------|-----------|-----------|------------|-----------|------------|------------|
| 1     | 1               | 1             |           |           |            |           |            |            |
| 1     | 2               | 2             |           |           |            |           |            |            |
| 1     | 3               | 3             |           |           |            |           |            |            |
| 1     | 4               | 4             |           |           |            |           |            |            |
| 1     | 5               | 5             |           |           |            |           |            |            |
| 1     | 6               | 6             |           |           |            |           |            |            |
| 1     | 7               | 7             |           |           |            |           |            |            |
| 1     | 8               | 8             |           |           |            |           |            |            |
| 1     | 9               | 9             |           |           |            |           |            |            |
| 1     | 10              | 10            |           |           |            |           |            |            |
| 1     | 11              | 11            |           |           |            |           |            |            |
| 1     | 12              | 12            |           |           |            |           |            |            |
| 1     | 13              | 13            |           |           |            |           |            |            |
| 1     | 14              | 14            |           |           |            |           |            |            |
| 1     | 15              | 15            |           |           |            |           |            |            |
| 1     | 16              | 16            |           |           |            |           |            |            |
| 1     | 17              | 17            |           |           |            |           |            |            |
| 1     | 18              | 18            |           |           |            |           |            |            |
| 1     | 19              | 19            |           |           |            |           |            |            |
| 1     | 20              | 20            |           |           |            |           |            |            |
| 1     | 21              | 21            | 0.001     | 0.1       |            |           |            |            |
| 1     | 22              | 22            | -0.002    | 0.0       | -0.001     |           |            |            |
| 1     | 23              | 23            | -0.001    | 0.0       | -0.002     | -0.001    | 0.000      | 0.000      |
| 1     | 24              | 24            | -0.001    |           |            |           |            |            |
| 1     | 25              | 25            | -0.001    |           |            |           |            |            |
| 1     | 26              | 26            | -0.001    |           |            |           |            |            |
| 1     | 27              | 27            | 0.001     |           |            |           |            |            |
| 1     | 28              | 28            | 0.001     | 0.1       | 0.001      | -0.002    | 0.000      | -0.001     |
| 1     | 29              | 29            | -0.001    | 0.1       | 0.000      | 0.000     | 0.001      | 0.001      |
| 1     | 30              | 30            | 0.001     | 0.1       | 0.001      | 0.004     | 0.001      | 0.005      |
| 1     | 31              | 31            | 0.001     | 0.1       | 0.001      | 0.003     | 0.001      | 0.004      |
| 2     | 1               | 32            | 0.001     | 0.0       | 0.001      | 0.003     | 0.003      | 0.007      |
| 2     | 2               | 33            | -0.001    | 0.0       | -0.001     | 0.004     | 0.004      | 0.009      |
| 2     | 3               | 34            | -0.001    | 0.0       | -0.001     | 0.004     | 0.001      | 0.007      |
| 2     | 4               | 35            | 0.001     | 0.1       | 0.001      | 0.003     | 0.000      | 0.005      |
| 2     | 5               | 36            | 0.001     | 0.1       | 0.001      | 0.006     | 0.001      | 0.008      |
| 2     | 6               | 37            | 0.001     | 0.1       | 0.001      | 0.003     | 0.001      | 0.005      |
| 2     | 7               | 38            | 0.001     | 0.1       | -0.001     | 0.003     | 0.004      | 0.007      |



[ ZERO.XLS]A

Daily Zero Values from January 17, 1991 - September 30, 1991

| Month | Calendar<br>Day | Julian<br>Day | O3<br>ppm | CO<br>ppm | SO2<br>ppm | NO<br>ppm | NO2<br>ppm | NOx<br>ppm |
|-------|-----------------|---------------|-----------|-----------|------------|-----------|------------|------------|
| 2     | 8               | 39            | -0.001    | 0.1       |            | 0.003     | 0.004      | 0.008      |
| 2     | 9               | 40            | 0.000     | 0.1       |            | 0.004     | 0.001      | 0.006      |
| 2     | 10              | 41            | -0.002    | 0.1       |            | 0.004     | 0.001      | 0.006      |
| 2     | 11              | 42            | -0.001    | 0.2       |            | 0.005     | 0.001      | 0.006      |
| 2     | 12              | 43            | -0.001    | 0.2       | -0.003     | 0.004     | 0.000      | 0.005      |
| 2     | 13              | 44            | 0.000     | 0.2       | 0.000      | 0.004     | 0.001      | 0.006      |
| 2     | 14              | 45            | -0.001    | 0.2       | -0.003     | 0.004     | 0.000      | 0.006      |
| 2     | 15              | 46            | -0.001    | 0.2       |            | 0.004     | 0.001      | 0.006      |
| 2     | 16              | 47            | -0.001    | 0.3       |            | 0.006     | 0.000      | 0.008      |
| 2     | 17              | 48            | 0.001     | 0.3       |            | 0.003     | 0.000      | 0.004      |
| 2     | 18              | 49            | -0.001    | 0.2       |            | 0.001     | 0.000      | 0.003      |
| 2     | 19              | 50            |           |           |            |           |            |            |
| 2     | 20              | 51            | 0.000     | 0.3       |            | 0.005     | 0.000      | 0.006      |
| 2     | 21              | 52            | -0.001    | -0.1      |            | 0.004     | 0.000      | 0.005      |
| 2     | 22              | 53            | 0.001     | 0.0       | 0.001      | 0.003     | 0.000      | 0.004      |
| 2     | 23              | 54            | 0.001     | 0.0       | 0.000      | 0.001     | 0.000      | 0.003      |
| 2     | 24              | 55            | -0.001    | 0.0       | -0.001     | 0.002     | 0.000      | 0.003      |
| 2     | 25              | 56            | 0.001     | 0.0       | 0.000      | 0.000     | 0.001      | 0.002      |
| 2     | 26              | 57            | 0.001     | 0.0       | 0.000      | 0.003     | 0.000      | 0.005      |
| 2     | 27              | 58            | 0.001     | 0.0       | 0.000      | 0.001     | 0.000      | 0.002      |
| 2     | 28              | 59            | -0.002    | -0.1      | 0.000      | 0.002     | 0.001      | 0.004      |
| 3     | 1               | 60            | 0.001     | 0.0       | 0.000      | -0.001    | 0.000      | -0.001     |
| 3     | 2               | 61            | 0.000     | 0.0       | 0.000      | -0.001    | 0.001      | 0.001      |
| 3     | 3               | 62            | 0.001     | 0.0       | 0.000      | 0.001     | 0.001      | 0.003      |
| 3     | 4               | 63            | 0.001     | 0.0       | 0.000      | 0.002     | 0.000      | 0.003      |
| 3     | 5               | 64            | -0.002    | 0.0       | -0.002     | 0.000     | 0.000      | 0.001      |
| 3     | 6               | 65            | -0.001    | 0.0       | -0.001     | 0.000     | 0.000      | 0.001      |
| 3     | 7               | 66            | -0.001    | 0.0       | -0.002     | 0.000     | 0.000      | 0.001      |
| 3     | 8               | 67            | 0.001     | 0.0       | 0.000      | 0.000     | 0.000      | 0.000      |
| 3     | 9               | 68            | -0.001    | 0.0       | -0.002     | 0.000     | 0.000      | 0.001      |
| 3     | 10              | 69            | 0.001     | -0.1      | 0.001      | 0.003     | 0.000      | 0.004      |
| 3     | 11              | 70            | -0.001    | 0.0       | -0.002     | 0.000     | 0.000      | 0.002      |
| 3     | 12              | 71            | 0.001     | 0.0       | 0.001      | 0.001     | 0.000      | 0.001      |
| 3     | 13              | 72            | 0.001     | 0.0       | 0.000      | -0.001    | 0.000      | 0.000      |
| 3     | 14              | 73            | 0.001     | 0.0       | 0.000      | -0.001    | 0.000      | 0.000      |
| 3     | 15              | 74            | -0.001    | 0.0       | -0.002     | 0.000     | 0.000      | 0.002      |
| 3     | 16              | 75            | -0.001    | 0.0       | -0.002     | 0.001     | 0.001      | 0.003      |
| 3     | 17              | 76            | -0.001    | 0.0       | 0.000      | 0.000     | 0.001      | 0.002      |
| 3     | 18              | 77            | 0.000     | 0.0       | -0.001     | 0.000     | 0.001      | 0.001      |

[ZERO.XLS]A

Daily Zero Values from January 17, 1991 - September 30, 1991

| Month | Calendar<br>Day | Julian<br>Day | O3<br>ppm | CO<br>ppm | SO2<br>ppm | NO<br>ppm | NO2<br>ppm | NOx<br>ppm |
|-------|-----------------|---------------|-----------|-----------|------------|-----------|------------|------------|
| 3     | 19              | 78            | -0.001    | 0.0       | -0.002     | 0.002     | 0.000      | 0.003      |
| 3     | 20              | 79            | 0.001     | 0.0       | 0.001      | 0.001     | 0.001      | 0.002      |
| 3     | 21              | 80            | -0.001    | 0.0       | -0.002     | 0.003     | 0.000      | 0.004      |
| 3     | 22              | 81            | -0.001    | 0.1       | -0.001     | 0.002     | 0.000      | 0.004      |
| 3     | 23              | 82            | 0.001     | 0.1       | 0.001      | 0.003     | 0.001      | 0.005      |
| 3     | 24              | 83            | -0.001    | 0.0       | 0.000      | 0.004     | 0.001      | 0.007      |
| 3     | 25              | 84            | 0.001     | 0.1       | 0.001      | 0.003     | 0.000      | 0.004      |
| 3     | 26              | 85            | 0.001     | 0.0       | 0.001      | 0.000     | 0.000      | 0.000      |
| 3     | 27              | 86            | 0.001     | 0.1       | 0.001      | 0.001     | 0.001      | 0.003      |
| 3     | 28              | 87            | 0.001     | 0.0       | 0.001      | 0.003     | 0.000      | 0.004      |
| 3     | 29              | 88            | -0.001    | 0.1       | 0.001      | -0.003    | 0.000      | -0.001     |
| 3     | 30              | 89            | 0.001     | 0.1       | 0.001      | 0.000     | 0.000      | 0.002      |
| 3     | 31              | 90            | -0.001    | 0.1       | -0.001     | 0.003     | 0.000      | 0.004      |
| 4     | 1               | 91            | -0.001    | 0.1       | -0.001     | 0.004     | 0.000      | 0.005      |
| 4     | 2               | 92            | 0.001     | 0.0       | 0.000      | 0.001     | 0.000      | 0.001      |
| 4     | 3               | 93            | 0.000     | 0.1       | -0.001     | 0.003     | 0.000      | 0.004      |
| 4     | 4               | 94            | 0.001     | 0.1       | -0.001     | 0.005     | 0.000      | 0.007      |
| 4     | 5               | 95            | 0.001     | 0.0       | 0.001      | 0.004     | 0.001      | 0.006      |
| 4     | 6               | 96            | -0.001    | 0.0       | -0.002     | 0.005     | 0.001      | 0.007      |
| 4     | 7               | 97            | 0.001     | 0.1       | 0.001      | 0.002     | 0.001      | 0.004      |
| 4     | 8               | 98            | 0.001     | 0.1       | 0.001      | 0.000     | 0.000      | 0.000      |
| 4     | 9               | 99            | -0.001    | 0.1       | -0.002     | 0.002     | 0.000      | 0.003      |
| 4     | 10              | 100           | 0.001     | 0.1       | 0.001      | 0.001     | 0.000      | 0.002      |
| 4     | 11              | 101           | 0.001     | 0.1       | 0.000      | 0.000     | 0.000      | 0.001      |
| 4     | 12              | 102           | 0.001     | 0.1       | -0.001     | -0.001    | 0.001      | 0.001      |
| 4     | 13              | 103           | -0.001    | 0.1       | -0.002     | 0.000     | 0.001      | 0.002      |
| 4     | 14              | 104           | -0.001    | 0.1       | -0.002     | 0.000     | 0.001      | 0.003      |
| 4     | 15              | 105           | 0.000     | 0.1       | 0.000      | 0.004     | 0.001      | 0.006      |
| 4     | 16              | 106           | 0.001     | 0.1       | 0.001      | 0.001     | 0.001      | 0.003      |
| 4     | 17              | 107           | -0.001    | 0.1       | 0.000      | 0.002     | 0.001      | 0.004      |
| 4     | 18              | 108           | 0.001     | 0.1       | 0.001      | 0.001     | 0.001      | 0.003      |
| 4     | 19              | 109           | -0.001    | 0.1       | 0.000      | 0.001     | 0.000      | 0.002      |
| 4     | 20              | 110           | 0.001     | 0.1       | 0.000      | 0.004     | 0.001      | 0.006      |
| 4     | 21              | 111           | -0.001    | 0.1       | -0.002     | 0.001     | 0.000      | 0.003      |
| 4     | 22              | 112           | -0.001    | 0.1       | 0.000      | 0.003     | 0.001      | 0.005      |
| 4     | 23              | 113           | 0.001     | 0.0       | 0.000      | 0.004     | 0.000      | 0.005      |
| 4     | 24              | 114           | -0.001    | 0.1       | -0.001     | 0.003     | 0.000      | 0.004      |
| 4     | 25              | 115           | 0.001     | 0.1       | 0.001      | 0.003     | 0.001      | 0.005      |
| 4     | 26              | 116           | 0.001     | 0.1       | -0.001     | 0.002     | 0.000      | 0.002      |

[ ZERO.XLS]A

Daily Zero Values from January 17, 1991 - September 30, 1991

| Month | Calendar<br>Day | Julian<br>Day | O3<br>ppm | CO<br>ppm | SO2<br>ppm | NO<br>ppm | NO2<br>ppm | NOx<br>ppm |
|-------|-----------------|---------------|-----------|-----------|------------|-----------|------------|------------|
| 4     | 27              | 117           | 0.001     | 0.1       | 0.001      | 0.003     | 0.000      | 0.004      |
| 4     | 28              | 118           | 0.001     | 0.1       | -0.001     | 0.000     | 0.000      | 0.000      |
| 4     | 29              | 119           | 0.001     | 0.0       | 0.001      | 0.002     | 0.000      | -0.002     |
| 4     | 30              | 120           | 0.001     | 0.1       | 0.001      |           |            |            |
| 5     | 1               | 121           | 0.001     | 0.0       | 0.002      | 0.002     | 0.001      | 0.003      |
| 5     | 2               | 122           | 0.001     | 0.0       | 0.001      | -0.003    | 0.000      | -0.002     |
| 5     | 3               | 123           | -0.001    | 0.0       | 0.000      | -0.003    | 0.000      | -0.002     |
| 5     | 4               | 124           | -0.002    | 0.0       | -0.002     | -0.002    | 0.000      | -0.001     |
| 5     | 5               | 125           | -0.002    | 0.0       | -0.001     | -0.001    | 0.000      | 0.000      |
| 5     | 6               | 126           | -0.001    | 0.0       | 0.001      | -0.001    | 0.000      | 0.000      |
| 5     | 7               | 127           | -0.003    | 0.1       | -0.002     | 0.001     | 0.001      | 0.003      |
| 5     | 8               | 128           | -0.003    | 0.0       | -0.001     | 0.000     | 0.000      | 0.002      |
| 5     | 9               | 129           | 0.001     | 0.0       | 0.001      | 0.001     | 0.001      | 0.002      |
| 5     | 10              | 130           | -0.001    | 0.0       | 0.000      | 0.000     | 0.000      | 0.001      |
| 5     | 11              | 131           | -0.003    | 0.0       | -0.001     | 0.000     | 0.000      | 0.002      |
| 5     | 12              | 132           | 0.001     | 0.0       | 0.001      | -0.002    | 0.001      | -0.001     |
| 5     | 13              | 133           | -0.001    | 0.0       | 0.001      | -0.003    | 0.000      | -0.001     |
| 5     | 14              | 134           | 0.001     | 0.0       | 0.001      | 0.001     | 0.001      | 0.003      |
| 5     | 15              | 135           | -0.002    | 0.0       | 0.000      | -0.002    | 0.001      | 0.000      |
| 5     | 16              | 136           | -0.003    | -0.1      | -0.002     | -0.001    | 0.001      | 0.001      |
| 5     | 17              | 137           | -0.002    | -0.1      | -0.002     | -0.002    | 0.001      | 0.000      |
| 5     | 18              | 138           | -0.001    | -0.1      | 0.001      | 0.000     | 0.001      | 0.002      |
| 5     | 19              | 139           | 0.000     | -0.1      | 0.001      | -0.001    | 0.001      | 0.001      |
| 5     | 20              | 140           | -0.001    | 0.0       | 0.001      | 0.000     | 0.000      | 0.001      |
| 5     | 21              | 141           | 0.001     | -0.1      | 0.001      | 0.000     | 0.001      | 0.002      |
| 5     | 22              | 142           |           |           |            |           |            |            |
| 5     | 23              | 143           | -0.003    | -0.1      | -0.001     | 0.000     | 0.001      | 0.002      |
| 5     | 24              | 144           | 0.000     | -0.1      | 0.000      | 0.001     | 0.001      | 0.003      |
| 5     | 25              | 145           | -0.002    | -0.1      | -0.001     | 0.000     | 0.001      | 0.002      |
| 5     | 26              | 146           | -0.002    | 0.0       | 0.000      | 0.000     | 0.001      | 0.002      |
| 5     | 27              | 147           | 0.000     | -0.1      | 0.000      | 0.001     | 0.001      | 0.003      |
| 5     | 28              | 148           | 0.000     | 0.0       | 0.002      | 0.000     | 0.001      | 0.002      |
| 5     | 29              | 149           | 0.000     | -0.1      | 0.000      | 0.001     | 0.001      | 0.002      |
| 5     | 30              | 150           | 0.001     | 0.0       | 0.001      | 0.000     | 0.001      | 0.003      |
| 5     | 31              | 151           | 0.001     | 0.0       | 0.001      | 0.000     | 0.001      | 0.001      |
| 6     | 1               | 152           | -0.001    | -0.1      | 0.001      | 0.001     | 0.001      | 0.003      |
| 6     | 2               | 153           | -0.001    | -0.1      | 0.001      | 0.001     | 0.001      | 0.003      |
| 6     | 3               | 154           | -0.002    | -0.1      | -0.002     | 0.000     | 0.000      | 0.002      |
| 6     | 4               | 155           | -0.002    | -0.1      | -0.002     | 0.000     | 0.001      | 0.003      |

[ ZERO.XLS ] A

Daily Zero Values from January 17, 1991 - September 30, 1991

| Month | Calendar<br>Day | Julian<br>Day | O3<br>ppm | CO<br>ppm | SO2<br>ppm | NO<br>ppm | NO2<br>ppm | NOx<br>ppm |
|-------|-----------------|---------------|-----------|-----------|------------|-----------|------------|------------|
| 6     | 5               | 156           | -0.002    | -0.1      | -0.002     | 0.000     | 0.000      | 0.002      |
| 6     | 6               | 157           | -0.002    | -0.1      | 0.000      | 0.000     | 0.001      | 0.002      |
| 6     | 7               | 158           | -0.003    | 0.0       | 0.000      | 0.000     | 0.001      | 0.001      |
| 6     | 8               | 159           | 0.000     | -0.1      | 0.001      | 0.000     | 0.001      | 0.003      |
| 6     | 9               | 160           | -0.003    | 0.0       | -0.001     | 0.000     | 0.001      | 0.002      |
| 6     | 10              | 161           | 0.001     | 0.0       | 0.001      | 0.000     | 0.002      | 0.002      |
| 6     | 11              | 162           | 0.000     | 0.0       | 0.001      | -0.001    | 0.001      | 0.002      |
| 6     | 12              | 163           |           | -0.1      | -0.001     | 0.000     | 0.001      | 0.002      |
| 6     | 13              | 164           |           | -0.1      | -0.001     | 0.000     | 0.001      | 0.002      |
| 6     | 14              | 165           |           | -0.2      | -0.001     | 0.000     | 0.000      | 0.001      |
| 6     | 15              | 166           |           | -0.2      | 0.001      | 0.000     | 0.000      | 0.000      |
| 6     | 16              | 167           |           | -0.1      | 0.000      | 0.000     | 0.000      | 0.001      |
| 6     | 17              | 168           |           | -0.2      | 0.000      | 0.000     | 0.001      | 0.001      |
| 6     | 18              | 169           |           | -0.1      | 0.001      | 0.001     | 0.000      | 0.001      |
| 6     | 19              | 170           |           | -0.1      | 0.001      | 0.000     | 0.001      | 0.001      |
| 6     | 20              | 171           |           | -0.1      | 0.001      | 0.000     | 0.001      | 0.001      |
| 6     | 21              | 172           |           | -0.1      | 0.001      | 0.000     | 0.001      | 0.002      |
| 6     | 22              | 173           |           | -0.1      | 0.001      | 0.000     | 0.001      | 0.002      |
| 6     | 23              | 174           |           | -0.1      | 0.000      | -0.001    | 0.001      | 0.001      |
| 6     | 24              | 175           |           | -0.1      | 0.002      | 0.000     | 0.001      | 0.002      |
| 6     | 25              | 176           |           | 0.0       | -0.001     | -0.001    | 0.000      | 0.001      |
| 6     | 26              | 177           | -0.003    | -0.1      | -0.001     | 0.000     | 0.001      | 0.003      |
| 6     | 27              | 178           | -0.003    | -0.1      | -0.003     | 0.000     | 0.002      | 0.003      |
| 6     | 28              | 179           | -0.003    | 0.3       | -0.002     | 0.000     | 0.003      | 0.004      |
| 6     | 29              | 180           | 0.001     | 0.3       | 0.001      | 0.000     | 0.003      | 0.003      |
| 6     | 30              | 181           | -0.001    | 0.4       | -0.002     | 0.000     | 0.003      | 0.004      |
| 7     | 1               | 182           | 0.001     |           |            |           |            |            |
| 7     | 2               | 183           | -0.003    | 0.4       | -0.002     | 0.000     | 0.002      | 0.004      |
| 7     | 3               | 184           | 0.000     | 0.4       | -0.001     | 0.000     | 0.003      | 0.004      |
| 7     | 4               | 185           | -0.001    | 0.5       | -0.001     | 0.000     | 0.002      | 0.003      |
| 7     | 5               | 186           | 0.001     | 0.5       | 0.001      | 0.000     | 0.002      | 0.002      |
| 7     | 6               | 187           | -0.003    | 0.5       | -0.002     | 0.000     | 0.002      | 0.003      |
| 7     | 7               | 188           | 0.001     | 0.5       | 0.001      | 0.000     | 0.001      | 0.001      |
| 7     | 8               | 189           | 0.001     | 0.5       | 0.000      | 0.001     | 0.002      | 0.003      |
| 7     | 9               | 190           | 0.001     | 0.5       | 0.001      | 0.000     | 0.001      | 0.002      |
| 7     | 10              | 191           | -0.001    | 0.5       | 0.000      | 0.000     | 0.001      | 0.002      |
| 7     | 11              | 192           | -0.002    | 0.6       | -0.002     | -0.001    | 0.001      | 0.000      |
| 7     | 12              | 193           |           |           | 0.001      | 0.001     | 0.000      | 0.002      |
| 7     | 13              | 194           |           |           | 0.000      | -0.001    | 0.001      | 0.001      |

[ZERO.XLS]A

Daily Zero Values from January 17, 1991 - September 30, 1991

| Month | Calendar Day | Julian Day | O3 ppm | CO ppm | SO2 ppm | NO ppm | NO2 ppm | NOx ppm |
|-------|--------------|------------|--------|--------|---------|--------|---------|---------|
| 7     | 14           | 195        | -0.003 |        | 0.000   | -0.001 | 0.000   | 0.000   |
| 7     | 15           | 196        | -0.001 |        | 0.000   | 0.001  | 0.001   | 0.003   |
| 7     | 16           | 197        | -0.001 | 0.0    | 0.000   | 0.000  | 0.001   | 0.001   |
| 7     | 17           | 198        | -0.003 | 0.0    | -0.002  | 0.001  | 0.001   | 0.003   |
| 7     | 18           | 199        | -0.004 | 0.0    | -0.002  | 0.000  | 0.000   | 0.001   |
| 7     | 19           | 200        | -0.001 | 0.0    | 0.001   | 0.001  | 0.001   | 0.002   |
| 7     | 20           | 201        | -0.003 | 0.0    | -0.002  | 0.000  | 0.000   | 0.002   |
| 7     | 21           | 202        | -0.003 | 0.0    | -0.001  | 0.001  | 0.000   | 0.003   |
| 7     | 22           | 203        | -0.003 | 0.0    | -0.002  | 0.000  | 0.000   | 0.002   |
| 7     | 23           | 204        | -0.003 | 0.0    | -0.002  | 0.001  | 0.000   | 0.002   |
| 7     | 24           | 205        | -0.002 | 0.1    | -0.001  | 0.002  | 0.000   | 0.003   |
| 7     | 25           | 206        | -0.002 | 0.1    | -0.001  | 0.003  | 0.000   | 0.004   |
| 7     | 26           | 207        | -0.002 | 0.0    | 0.001   | 0.001  | 0.000   | 0.003   |
| 7     | 27           | 208        | -0.003 | 0.0    | 0.000   | 0.001  | 0.001   | 0.004   |
| 7     | 28           | 209        | -0.001 | 0.0    | 0.000   | 0.003  | 0.000   | 0.003   |
| 7     | 29           | 210        | -0.002 | 0.0    | -0.001  | 0.003  | 0.000   | 0.004   |
| 7     | 30           | 211        | -0.003 | 0.0    | -0.002  | 0.003  | 0.000   | 0.004   |
| 7     | 31           | 212        | -0.003 | 0.0    | -0.001  | 0.003  | 0.001   | 0.005   |
| 8     | 1            | 213        | -0.004 | -0.1   | -0.002  | 0.002  | 0.001   | 0.004   |
| 8     | 2            | 214        | -0.004 | 0.0    | -0.002  | 0.001  | 0.000   | 0.003   |
| 8     | 3            | 215        | -0.004 | 0.0    | -0.002  | 0.002  | 0.000   | 0.003   |
| 8     | 4            | 216        | -0.003 | 0.0    | 0.000   | 0.001  | 0.000   | 0.003   |
| 8     | 5            | 217        | -0.003 | 0.0    | 0.000   | 0.001  | 0.001   | 0.004   |
| 8     | 6            | 218        | -0.004 | 0.0    | 0.000   | 0.002  | 0.001   | 0.004   |
| 8     | 7            | 219        | -0.001 | 0.1    | 0.001   | 0.002  | 0.001   | 0.004   |
| 8     | 8            | 220        | 0.000  | 0.1    | 0.007   | 0.001  | 0.004   | 0.006   |
| 8     | 9            | 221        | -0.003 | 0.0    | 0.000   | 0.003  | 0.000   | 0.004   |
| 8     | 10           | 222        | -0.003 | 0.1    | 0.000   | 0.003  | 0.000   | 0.004   |
| 8     | 11           | 223        | -0.001 | 0.1    | 0.000   | 0.002  | 0.001   | 0.004   |
| 8     | 12           | 224        | -0.003 | 0.0    | 0.000   | 0.002  | 0.001   | 0.004   |
| 8     | 13           | 225        | -0.003 | 0.0    | 0.000   | 0.002  | 0.001   | 0.004   |
| 8     | 14           | 226        | -0.001 | 0.0    | 0.001   | 0.003  | 0.001   | 0.004   |
| 8     | 15           | 227        | -0.003 | 0.0    | -0.002  | 0.003  | 0.000   | 0.004   |
| 8     | 16           | 228        | -0.001 | 0.0    | 0.001   | 0.002  | 0.001   | 0.004   |
| 8     | 17           | 229        | -0.001 | 0.0    | 0.000   | 0.003  | 0.001   | 0.004   |
| 8     | 18           | 230        | -0.003 | 0.0    | 0.000   | 0.003  | 0.001   | 0.005   |
| 8     | 19           | 231        | -0.004 | 0.0    | -0.001  | 0.002  | 0.001   | 0.005   |
| 8     | 20           | 232        | -0.003 | 0.0    | -0.002  | 0.002  | 0.001   | 0.004   |
| 8     | 21           | 233        | -0.004 | 0.0    | -0.001  | 0.003  | 0.000   | 0.005   |

[ ZERO.XLS]A

Daily Zero Values from January 17, 1991 - September 30, 1991

| Month | Calendar<br>Day | Julian<br>Day | O3<br>ppm | CO<br>ppm | SO2<br>ppm | NO<br>ppm | NO2<br>ppm | NOx<br>ppm |
|-------|-----------------|---------------|-----------|-----------|------------|-----------|------------|------------|
| 8     | 22              | 234           | -0.001    | 0.2       | 0.001      | 0.000     | 0.000      | 0.001      |
| 8     | 23              | 235           | -0.003    | 0.0       | -0.002     | 0.003     | 0.001      | 0.005      |
| 8     | 24              | 236           | -0.003    | 0.0       | -0.001     | 0.002     | 0.001      | 0.004      |
| 8     | 25              | 237           | -0.001    | 0.1       | 0.001      | 0.003     | 0.000      | 0.004      |
| 8     | 26              | 238           | -0.002    | 0.1       | -0.001     | 0.003     | 0.000      | 0.004      |
| 8     | 27              | 239           | 0.000     | 0.0       | 0.000      | 0.000     | 0.000      | 0.000      |
| 8     | 28              | 240           | -0.003    | 0.2       | 0.001      | 0.001     | 0.000      | 0.003      |
| 8     | 29              | 241           | -0.002    | 0.1       | 0.000      | 0.003     | 0.000      | 0.004      |
| 8     | 30              | 242           | -0.001    | 0.0       | 0.001      | 0.002     | 0.001      | 0.003      |
| 8     | 31              | 243           | -0.001    | -0.1      | 0.000      | 0.002     | 0.000      | 0.003      |
| 9     | 1               | 244           | 0.000     | 0.0       | 0.001      | 0.002     | 0.001      | 0.004      |
| 9     | 2               | 245           | -0.003    | -0.1      | 0.000      | 0.001     | 0.001      | 0.004      |
| 9     | 3               | 246           | -0.004    | -0.1      | -0.001     | 0.002     | 0.000      | 0.003      |
| 9     | 4               | 247           | -0.001    | -0.1      | 0.001      | 0.003     | 0.000      | 0.004      |
| 9     | 5               | 248           | -0.001    | 0.0       | 0.002      | 0.002     | 0.001      | 0.004      |
| 9     | 6               | 249           | -0.004    | -0.1      | -0.001     | 0.002     | 0.001      | 0.004      |
| 9     | 7               | 250           | -0.003    | -0.1      | -0.001     | 0.001     | 0.001      | 0.003      |
| 9     | 8               | 251           | -0.001    | -0.1      | 0.000      | 0.002     | 0.000      | 0.003      |
| 9     | 9               | 252           | -0.005    | -0.1      | -0.001     | 0.002     | 0.000      | 0.003      |
| 9     | 10              | 253           | -0.005    | -0.1      | -0.001     | 0.002     | 0.001      | 0.004      |
| 9     | 11              | 254           | -0.002    | -0.1      | 0.001      | 0.001     | 0.001      | 0.004      |
| 9     | 12              | 255           | -0.003    | -0.1      | -0.001     | 0.002     | 0.001      | 0.004      |
| 9     | 13              | 256           | -0.003    | -0.1      | -0.001     | 0.001     | 0.001      | 0.003      |
| 9     | 14              | 257           | 0.000     | -0.1      | 0.002      | 0.001     | 0.001      | 0.003      |
| 9     | 15              | 258           | -0.004    | -0.1      | -0.001     | 0.001     | 0.001      | 0.003      |
| 9     | 16              | 259           | -0.001    | -0.1      | 0.002      | 0.002     | 0.002      | 0.004      |
| 9     | 17              | 260           | -0.001    | -0.1      | 0.002      | 0.001     | 0.000      | 0.002      |
| 9     | 18              | 261           | -0.001    | -0.1      | 0.001      | 0.000     | 0.001      | 0.002      |
| 9     | 19              | 262           | -0.003    | -0.1      | 0.000      | 0.001     | 0.000      | 0.003      |
| 9     | 20              | 263           | -0.002    | -0.1      | 0.001      | 0.003     | 0.000      | 0.004      |
| 9     | 21              | 264           | -0.001    | 0.0       | 0.002      | 0.001     | 0.000      | 0.002      |
| 9     | 22              | 265           | -0.003    | 0.0       | -0.001     | 0.001     | 0.001      | 0.002      |
| 9     | 23              | 266           | -0.003    | 0.0       | -0.001     | 0.001     | 0.000      | 0.002      |
| 9     | 24              | 267           | -0.003    | 0.0       | 0.001      | 0.001     | 0.001      | 0.003      |
| 9     | 25              | 268           | -0.002    | -0.1      | 0.001      | 0.001     | 0.001      | 0.002      |
| 9     | 26              | 269           | -0.004    | 0.0       | -0.001     | 0.000     | 0.000      | 0.002      |
| 9     | 27              | 270           | -0.001    | 0.0       | 0.001      | 0.001     | 0.001      | 0.003      |
| 9     | 28              | 271           | -0.001    | 0.0       | 0.001      | 0.002     | 0.000      | 0.003      |
| 9     | 29              | 272           | -0.004    | 0.0       | -0.001     | 0.001     | 0.001      | 0.003      |

Daily Zero Values from January 17, 1991 - September 30, 1991

| Month | Calendar<br>Day | Julian<br>Day | O3<br>ppm | CO<br>ppm | SO2<br>ppm | NO<br>ppm | NO2<br>ppm | NOx<br>ppm |
|-------|-----------------|---------------|-----------|-----------|------------|-----------|------------|------------|
| 9     | 30              | 273           | -0.001    | 0.0       | 0.002      | 0.001     | 0.000      | 0.003      |

Daily Span Values from January 21, 1991 - September 30, 1991

| Calendar |     | Julian | O3    | CO   | SO2   | NO    | NO2   | NOx   | Dil<br>Flow | Tank<br>Flow | Dil<br>Flow   | Tank<br>Flow  |
|----------|-----|--------|-------|------|-------|-------|-------|-------|-------------|--------------|---------------|---------------|
| Month    | Day | Day    | ppm   | ppm  | ppm   | ppm   | ppm   | ppm   | CO<br>scm   | CO<br>scm    | SO2/NO<br>scm | SO2/NO<br>scm |
| 1        | 1   | 1      |       |      |       |       |       |       |             |              |               |               |
| 1        | 2   | 2      |       |      |       |       |       |       |             |              |               |               |
| 1        | 3   | 3      |       |      |       |       |       |       |             |              |               |               |
| 1        | 4   | 4      |       |      |       |       |       |       |             |              |               |               |
| 1        | 5   | 5      |       |      |       |       |       |       |             |              |               |               |
| 1        | 6   | 6      |       |      |       |       |       |       |             |              |               |               |
| 1        | 7   | 7      |       |      |       |       |       |       |             |              |               |               |
| 1        | 8   | 8      |       |      |       |       |       |       |             |              |               |               |
| 1        | 9   | 9      |       |      |       |       |       |       |             |              |               |               |
| 1        | 10  | 10     |       |      |       |       |       |       |             |              |               |               |
| 1        | 11  | 11     |       |      |       |       |       |       |             |              |               |               |
| 1        | 12  | 12     |       |      |       |       |       |       |             |              |               |               |
| 1        | 13  | 13     |       |      |       |       |       |       |             |              |               |               |
| 1        | 14  | 14     |       |      |       |       |       |       |             |              |               |               |
| 1        | 15  | 15     |       |      |       |       |       |       |             |              |               |               |
| 1        | 16  | 16     |       |      |       |       |       |       |             |              |               |               |
| 1        | 17  | 17     |       |      |       |       |       |       |             |              |               |               |
| 1        | 18  | 18     |       |      |       |       |       |       |             |              |               |               |
| 1        | 19  | 19     |       |      |       |       |       |       |             |              |               |               |
| 1        | 20  | 20     |       |      |       |       |       |       |             |              |               |               |
| 1        | 21  | 21     | 0.852 | 37.9 |       |       |       |       | 4390        | 70.7         | 7990          | 30.5          |
| 1        | 22  | 22     | 0.846 | 37.4 | 0.414 |       |       |       | 4383        | 67.7         | 8010          | 34.2          |
| 1        | 23  | 23     | 0.861 | 37.7 | 0.417 | 0.442 | 0.398 | 0.442 | 4379        | 67.6         | 8010          | 34.2          |
| 1        | 24  | 24     | 0.838 |      |       |       |       |       | 4379        | 67.8         | 8010          | 34.3          |
| 1        | 25  | 25     | 0.842 |      |       |       |       |       |             |              |               |               |
| 1        | 26  | 26     | 0.837 |      |       |       |       |       |             |              |               |               |
| 1        | 27  | 27     | 0.831 |      |       |       |       |       |             |              |               |               |
| 1        | 28  | 28     | 0.854 | 38.2 | 0.415 | 0.471 | 0.412 | 0.471 | 4380        | 67.7         | 8000          | 34.2          |
| 1        | 29  | 29     | 0.820 | 37.9 | 0.419 | 0.442 | 0.384 | 0.440 | 4384        | 67.6         | 7990          | 34.2          |
| 1        | 30  | 30     | 0.820 | 37.6 | 0.419 | 0.436 | 0.382 | 0.435 | 4376        | 67.6         | 7990          | 34.2          |
| 1        | 31  | 31     | 0.823 | 37.7 | 0.418 | 0.422 | 0.381 | 0.425 | 4389        | 67.7         | 8000          | 34.3          |
| 2        | 1   | 32     | 0.824 | 37.7 | 0.419 | 0.413 | 0.370 | 0.418 | 4389        | 67.7         | 8010          | 34.3          |
| 2        | 2   | 33     | 0.815 | 37.7 | 0.415 | 0.406 | 0.360 | 0.410 | 4382        | 67.7         | 8010          | 34.2          |
| 2        | 3   | 34     | 0.820 | 37.7 | 0.417 | 0.424 | 0.371 | 0.424 | 4389        | 67.7         | 7990          | 34.3          |
| 2        | 4   | 35     | 0.823 | 37.7 | 0.413 | 0.433 | 0.378 | 0.430 | 4389        | 67.7         | 8020          | 34.3          |
| 2        | 5   | 36     | 0.817 | 37.7 | 0.415 | 0.426 | 0.372 | 0.423 | 4389        | 67.7         | 7990          | 34.3          |
| 2        | 6   | 37     | 0.826 | 37.9 | 0.415 | 0.418 | 0.375 | 0.417 | 4376        | 67.7         | 8010          | 34.1          |
| 2        | 7   | 38     | 0.818 | 37.8 | 0.414 |       |       |       | 4377        | 67.7         | 8010          | 34.2          |
| 2        | 8   | 39     | 0.814 | 37.8 |       | 0.401 | 0.364 | 0.405 | 4384        | 67.5         | 8000          | 34.3          |
| 2        | 9   | 40     | 0.816 | 38.0 |       | 0.399 | 0.360 | 0.400 | 4377        | 67.7         | 7990          | 34.2          |
| 2        | 10  | 41     | 0.816 | 38.1 |       | 0.407 | 0.368 | 0.406 | 4377        | 67.7         | 8000          | 34.2          |
| 2        | 11  | 42     | 0.810 | 38.1 |       | 0.412 | 0.368 | 0.409 | 4384        | 67.7         | 8010          | 34.2          |
| 2        | 12  | 43     | 0.793 | 37.9 | 0.454 | 0.414 | 0.366 | 0.417 | 4384        | 67.7         | 8000          | 34.2          |
| 2        | 13  | 44     | 0.793 | 38.1 | 0.427 | 0.419 | 0.369 | 0.422 | 4384        | 67.5         | 8000          | 34.1          |
| 2        | 14  | 45     | 0.800 | 38.1 | 0.383 | 0.416 | 0.376 | 0.416 | 4377        | 67.5         | 7990          | 34.2          |



Daily Span Values from January 21, 1991 - September 30, 1991

| Calendar |     | Julian | O3    | CO   | SO2   | NO    | NO2   | NOx   | Dil<br>Flow | Tank<br>Flow | Dil<br>Flow | Tank<br>Flow |
|----------|-----|--------|-------|------|-------|-------|-------|-------|-------------|--------------|-------------|--------------|
| Month    | Day | Day    | ppm   | ppm  | ppm   | ppm   | ppm   | ppm   | scem        | scem         | scem        | scem         |
| 2        | 15  | 46     | 0.788 | 38.1 |       | 0.407 | 0.357 | 0.407 | 4384        | 67.6         | 8000        | 34.2         |
| 2        | 16  | 47     | 0.779 | 38.1 |       | 0.409 | 0.353 | 0.409 | 4377        | 67.7         | 8000        | 34.1         |
| 2        | 17  | 48     | 0.794 | 38.2 |       | 0.419 | 0.375 | 0.419 | 4377        | 67.6         | 8000        | 34.2         |
| 2        | 18  | 49     | 0.800 | 38.3 |       | 0.416 | 0.371 | 0.415 | 4384        | 67.7         | 8000        | 34.2         |
| 2        | 19  | 50     |       |      |       |       |       |       | 4384        | 67.6         | 8000        | 34.2         |
| 2        | 20  | 51     | 0.794 | 38.3 |       | 0.414 | 0.366 | 0.412 | 4384        | 67.7         | 7980        | 34.2         |
| 2        | 21  | 52     | 0.800 | 37.5 |       | 0.418 | 0.371 | 0.417 | 4385        | 67.6         | 8000        | 34.1         |
| 2        | 22  | 53     | 0.790 | 37.5 | 0.418 | 0.413 | 0.361 | 0.415 | 4378        | 67.6         | 7970        | 34.1         |
| 2        | 23  | 54     | 0.797 | 37.5 | 0.418 | 0.407 | 0.364 | 0.406 | 4385        | 67.6         | 8000        | 34.2         |
| 2        | 24  | 55     | 0.798 | 37.5 | 0.418 | 0.409 | 0.369 | 0.407 | 4384        | 67.7         | 7980        | 34.2         |
| 2        | 25  | 56     | 0.803 | 37.5 | 0.418 | 0.409 | 0.370 | 0.409 | 4385        | 67.6         | 7990        | 34.2         |
| 2        | 26  | 57     | 0.794 | 37.5 | 0.416 | 0.407 | 0.363 | 0.407 | 4383        | 67.6         | 8000        | 34.2         |
| 2        | 27  | 58     | 0.790 | 37.5 | 0.414 | 0.409 | 0.361 | 0.407 | 4384        | 67.7         | 7990        | 34.2         |
| 2        | 28  | 59     | 0.785 | 37.5 | 0.412 | 0.406 | 0.351 | 0.403 | 4377        | 67.7         | 8010        | 34.2         |
| 3        | 1   | 60     | 0.805 | 37.6 | 0.411 | 0.424 | 0.377 | 0.424 | 4379        | 67.6         | 7990        | 34.2         |
| 3        | 2   | 61     | 0.801 | 37.6 | 0.418 | 0.409 | 0.368 | 0.410 | 4385        | 67.6         | 8010        | 34.1         |
| 3        | 3   | 62     | 0.805 | 37.6 | 0.414 | 0.415 | 0.373 | 0.413 | 4377        | 67.6         | 7980        | 34.2         |
| 3        | 4   | 63     | 0.791 | 37.5 | 0.410 | 0.409 | 0.359 | 0.408 | 4377        | 67.6         | 7980        | 34.2         |
| 3        | 5   | 64     | 0.798 | 37.5 | 0.411 | 0.409 | 0.368 | 0.412 | 4378        | 67.6         | 8000        | 34.2         |
| 3        | 6   | 65     | 0.804 | 37.5 | 0.412 | 0.418 | 0.373 | 0.416 | 4385        | 67.6         | 8000        | 34.3         |
| 3        | 7   | 66     | 0.807 | 37.6 | 0.414 | 0.412 | 0.368 | 0.413 | 4384        | 67.5         | 8010        | 34.3         |
| 3        | 8   | 67     | 0.817 | 37.6 | 0.416 | 0.426 | 0.384 | 0.424 | 4385        | 67.7         | 8010        | 34.1         |
| 3        | 9   | 68     | 0.809 | 37.6 | 0.412 | 0.417 | 0.375 | 0.413 | 4385        | 67.6         | 7980        | 34.3         |
| 3        | 10  | 69     | 0.798 | 37.4 | 0.411 | 0.402 | 0.358 | 0.401 | 4383        | 67.6         | 8020        | 34.2         |
| 3        | 11  | 70     | 0.800 | 37.7 | 0.414 | 0.408 | 0.362 | 0.410 | 4384        | 67.6         | 7990        | 34.2         |
| 3        | 12  | 71     | 0.807 | 37.7 | 0.413 | 0.408 | 0.364 | 0.404 | 4377        | 67.6         | 8010        | 34.2         |
| 3        | 13  | 72     | 0.808 | 37.8 | 0.411 | 0.417 | 0.372 | 0.414 | 4385        | 67.6         | 7990        | 34.3         |
| 3        | 14  | 73     | 0.805 | 37.6 | 0.410 | 0.411 | 0.369 | 0.407 | 4379        | 67.6         | 8010        | 34.1         |
| 3        | 15  | 74     | 0.802 | 37.6 | 0.414 | 0.410 | 0.365 | 0.410 | 4384        | 67.6         | 8020        | 34.1         |
| 3        | 16  | 75     | 0.803 | 37.7 | 0.414 | 0.415 | 0.370 | 0.414 | 4384        | 67.6         | 7980        | 34.1         |
| 3        | 17  | 76     | 0.807 | 37.7 | 0.415 | 0.414 | 0.368 | 0.413 | 4378        | 67.7         | 8000        | 34.1         |
| 3        | 18  | 77     | 0.802 | 37.8 | 0.413 | 0.415 | 0.372 | 0.414 | 4385        | 67.6         | 7980        | 34.2         |
| 3        | 19  | 78     | 0.781 | 37.5 | 0.403 | 0.405 | 0.356 | 0.406 | 4384        | 67.6         | 8000        | 34.2         |
| 3        | 20  | 79     | 0.791 | 37.6 | 0.408 | 0.410 | 0.362 | 0.408 | 4384        | 67.5         | 7990        | 34.1         |
| 3        | 21  | 80     | 0.783 | 37.7 | 0.417 | 0.424 | 0.369 | 0.425 | 4379        | 67.6         | 8000        | 34.1         |
| 3        | 22  | 81     | 0.791 | 37.7 | 0.419 | 0.422 | 0.375 | 0.420 | 4379        | 67.6         | 8000        | 34.2         |
| 3        | 23  | 82     | 0.788 | 37.6 | 0.421 | 0.423 | 0.371 | 0.422 | 4385        | 67.6         | 8000        | 34.0         |
| 3        | 24  | 83     | 0.785 | 37.6 | 0.418 | 0.422 | 0.369 | 0.422 | 4378        | 67.6         | 8000        | 34.2         |
| 3        | 25  | 84     | 0.785 | 37.6 | 0.412 | 0.426 | 0.370 | 0.422 | 4379        | 67.6         | 8010        | 34.1         |
| 3        | 26  | 85     | 0.788 | 37.6 | 0.412 | 0.441 | 0.386 | 0.436 | 4379        | 67.7         | 7990        | 34.1         |
| 3        | 27  | 86     | 0.794 | 37.7 | 0.416 | 0.437 | 0.384 | 0.433 | 4379        | 67.6         | 8000        | 34.2         |
| 3        | 28  | 87     | 0.792 | 37.7 | 0.417 | 0.435 | 0.385 | 0.433 | 4379        | 67.6         | 7970        | 34.2         |
| 3        | 29  | 88     | 0.813 | 38.0 | 0.422 | 0.437 | 0.401 | 0.436 | 4380        | 67.7         | 8000        | 34.2         |
| 3        | 30  | 89     | 0.807 | 37.9 | 0.424 | 0.434 | 0.392 | 0.434 | 4379        | 67.6         | 8020        | 34.1         |
| 3        | 31  | 90     | 0.797 | 37.8 | 0.422 | 0.429 | 0.386 | 0.429 | 4385        | 67.5         | 7990        | 34.1         |

Daily Span Values from January 21, 1991 - September 30, 1991

| Calendar |     | Julian | O3    | CO   | SO2   | NO    | NO2   | NOx   | Dil<br>Flow | Tank<br>Flow | Dil<br>Flow | Tank<br>Flow |
|----------|-----|--------|-------|------|-------|-------|-------|-------|-------------|--------------|-------------|--------------|
| Month    | Day | Day    | ppm   | ppm  | ppm   | ppm   | ppm   | ppm   | scem        | scem         | scem        | scem         |
| 4        | 1   | 91     | 0.792 | 37.7 | 0.417 | 0.426 | 0.375 | 0.424 | 4378        | 67.6         | 8000        | 34.2         |
| 4        | 2   | 92     | 0.803 | 37.8 | 0.418 | 0.432 | 0.388 | 0.433 | 4379        | 67.6         | 8010        | 34.2         |
| 4        | 3   | 93     | 0.801 | 37.8 | 0.426 | 0.428 | 0.387 | 0.426 | 4385        | 67.6         | 7990        | 34.3         |
| 4        | 4   | 94     | 0.796 | 37.7 | 0.424 | 0.433 | 0.380 | 0.431 | 4377        | 67.7         | 7980        | 34.2         |
| 4        | 5   | 95     | 0.792 | 37.7 | 0.419 | 0.425 | 0.384 | 0.425 | 4378        | 67.6         | 8000        | 34.3         |
| 4        | 6   | 96     | 0.786 | 37.7 | 0.417 | 0.427 | 0.376 | 0.427 | 4384        | 67.5         | 8000        | 34.2         |
| 4        | 7   | 97     | 0.790 | 37.6 | 0.420 | 0.428 | 0.380 | 0.429 | 4379        | 67.6         | 8010        | 34.1         |
| 4        | 8   | 98     | 0.804 | 37.9 | 0.420 | 0.431 | 0.391 | 0.429 | 4379        | 67.6         | 8010        | 34.2         |
| 4        | 9   | 99     | 0.792 | 37.6 | 0.420 | 0.431 | 0.384 | 0.430 | 4379        | 67.6         | 7990        | 34.2         |
| 4        | 10  | 100    | 0.787 | 37.8 | 0.416 | 0.429 | 0.378 | 0.428 | 4379        | 67.6         | 8000        | 34.2         |
| 4        | 11  | 101    | 0.795 | 37.8 | 0.418 | 0.432 | 0.385 | 0.431 | 4379        | 67.6         | 8010        | 34.3         |
| 4        | 12  | 102    | 0.804 | 37.9 | 0.422 | 0.436 | 0.392 | 0.437 | 4379        | 67.6         | 7990        | 34.2         |
| 4        | 13  | 103    | 0.797 | 37.9 | 0.424 | 0.432 | 0.386 | 0.430 | 4379        | 67.6         | 7990        | 34.1         |
| 4        | 14  | 104    | 0.791 | 37.8 | 0.418 | 0.430 | 0.383 | 0.429 | 4385        | 67.6         | 8010        | 34.2         |
| 4        | 15  | 105    | 0.787 | 37.7 | 0.420 | 0.428 | 0.376 | 0.427 | 4378        | 67.6         | 7980        | 34.2         |
| 4        | 16  | 106    | 0.794 | 37.9 | 0.422 | 0.432 | 0.382 | 0.431 | 4379        | 67.6         | 8000        | 34.3         |
| 4        | 17  | 107    | 0.790 | 37.9 | 0.419 | 0.427 | 0.379 | 0.428 | 4379        | 67.6         | 8000        | 34.1         |
| 4        | 18  | 108    | 0.793 | 37.9 | 0.424 | 0.432 | 0.380 | 0.433 | 4379        | 67.6         | 7990        | 34.1         |
| 4        | 19  | 109    | 0.794 | 37.8 | 0.425 | 0.428 | 0.382 | 0.428 | 4379        | 67.6         | 7990        | 34.1         |
| 4        | 20  | 110    | 0.779 | 37.7 | 0.424 | 0.423 | 0.369 | 0.424 | 4385        | 67.6         | 8000        | 34.2         |
| 4        | 21  | 111    | 0.786 | 37.9 | 0.425 | 0.424 | 0.375 | 0.423 | 4379        | 67.6         | 8000        | 34.2         |
| 4        | 22  | 112    | 0.780 | 37.8 | 0.421 | 0.422 | 0.370 | 0.423 | 4378        | 67.6         | 8000        | 34.2         |
| 4        | 23  | 113    | 0.780 | 37.9 | 0.422 | 0.427 | 0.374 | 0.425 | 4385        | 67.6         | 8010        | 34.2         |
| 4        | 24  | 114    | 0.776 | 38.4 | 0.434 | 0.437 | 0.371 | 0.437 | 4385        | 67.6         | 8000        | 34.2         |
| 4        | 25  | 115    | 0.768 | 38.3 | 0.431 | 0.436 | 0.363 | 0.435 | 4385        | 67.6         | 7980        | 34.1         |
| 4        | 26  | 116    | 0.786 | 38.4 | 0.433 | 0.440 | 0.348 | 0.439 | 4385        | 67.7         | 7990        | 34.3         |
| 4        | 27  | 117    | 0.778 | 38.5 | 0.433 | 0.440 | 0.372 | 0.439 | 4379        | 67.5         | 8000        | 34.3         |
| 4        | 28  | 118    | 0.790 | 38.7 | 0.438 | 0.447 | 0.382 | 0.446 | 4379        | 67.6         | 7990        | 34.2         |
| 4        | 29  | 119    | 0.784 | 38.5 | 0.441 | 0.442 | 0.376 | 0.442 | 4379        | 67.6         | 7990        | 34.1         |
| 4        | 30  | 120    | 0.785 | 38.8 | 0.419 |       |       |       | 4379        | 67.6         | 7990        | 34.2         |
| 5        | 1   | 121    | 0.762 | 37.9 | 0.406 | 0.411 | 0.344 | 0.407 | 4384        | 67.6         | 7980        | 34.0         |
| 5        | 2   | 122    | 0.796 | 37.9 | 0.404 | 0.405 | 0.360 | 0.406 | 4379        | 67.6         | 8010        | 34.1         |
| 5        | 3   | 123    | 0.785 | 38.1 | 0.420 | 0.415 | 0.362 | 0.415 | 4385        | 67.6         | 8010        | 34.1         |
| 5        | 4   | 124    | 0.788 | 38.1 | 0.423 | 0.407 | 0.361 | 0.407 | 4379        | 67.6         | 8010        | 34.2         |
| 5        | 5   | 125    | 0.781 | 37.9 | 0.420 | 0.409 | 0.357 | 0.406 | 4385        | 67.6         | 8010        | 34.1         |
| 5        | 6   | 126    | 0.770 | 38.1 | 0.421 | 0.409 | 0.354 | 0.406 | 4385        | 67.6         | 7990        | 34.2         |
| 5        | 7   | 127    | 0.769 | 37.9 | 0.420 | 0.403 | 0.347 | 0.402 | 4378        | 67.6         | 8000        | 34.2         |
| 5        | 8   | 128    | 0.760 | 37.9 | 0.422 | 0.410 | 0.348 | 0.408 | 4385        | 67.6         | 8010        | 34.3         |
| 5        | 9   | 129    | 0.762 | 37.9 | 0.419 | 0.409 | 0.347 | 0.410 | 4385        | 67.6         | 7990        | 34.2         |
| 5        | 10  | 130    | 0.760 | 38.0 | 0.422 | 0.411 | 0.348 | 0.414 | 4385        | 67.6         | 8010        | 34.3         |
| 5        | 11  | 131    | 0.760 | 38.0 | 0.422 | 0.411 | 0.350 | 0.412 | 4385        | 67.6         | 8010        | 34.1         |
| 5        | 12  | 132    | 0.776 | 38.0 | 0.419 | 0.409 | 0.360 | 0.409 | 4385        | 67.6         | 8010        | 34.2         |
| 5        | 13  | 133    | 0.771 | 37.9 | 0.424 | 0.410 | 0.353 | 0.411 | 4385        | 67.6         | 8000        | 34.4         |
| 5        | 14  | 134    | 0.761 | 37.9 | 0.422 | 0.408 | 0.343 | 0.409 | 4385        | 67.6         | 8020        | 34.0         |
| 5        | 15  | 135    | 0.775 | 37.9 | 0.424 | 0.405 | 0.349 | 0.406 | 4385        | 67.6         | 7990        | 34.2         |

Daily Span Values from January 21, 1991 - September 30, 1991

| Calendar |     | Julian | O3    | CO   | SO2   | NO    | NO2   | NOx   | Dil<br>Flow | Tank<br>Flow | Dil<br>Flow | Tank<br>Flow |
|----------|-----|--------|-------|------|-------|-------|-------|-------|-------------|--------------|-------------|--------------|
| Month    | Day | Day    | ppm   | ppm  | ppm   | ppm   | ppm   | ppm   | scem        | scem         | scem        | scem         |
| 5        | 16  | 136    | 0.774 | 37.9 | 0.429 | 0.411 | 0.348 | 0.412 | 4378        | 67.5         | 8000        | 34.1         |
| 5        | 17  | 137    | 0.772 | 37.8 | 0.429 | 0.413 | 0.354 | 0.413 | 4379        | 67.7         | 8000        | 34.2         |
| 5        | 18  | 138    | 0.772 | 38.1 | 0.433 | 0.414 | 0.348 | 0.415 | 4379        | 67.6         | 8010        | 34.4         |
| 5        | 19  | 139    | 0.775 | 38.2 | 0.429 | 0.414 | 0.352 | 0.414 | 4385        | 67.7         | 8000        | 34.2         |
| 5        | 20  | 140    | 0.774 | 38.0 | 0.429 | 0.416 | 0.353 | 0.415 | 4385        | 67.8         | 7990        | 34.1         |
| 5        | 21  | 141    | 0.815 | 38.0 | 0.450 | 0.439 | 0.406 | 0.439 | 4379        | 67.6         | 7980        | 36.3         |
| 5        | 22  | 142    |       |      |       |       |       |       |             |              |             |              |
| 5        | 23  | 143    | 0.814 | 37.0 | 0.430 | 0.393 | 0.388 | 0.393 | 4392        | 67.8         | 8000        | 36.1         |
| 5        | 24  | 144    | 0.811 | 37.0 | 0.430 | 0.402 | 0.389 | 0.403 | 4398        | 67.8         | 8000        | 36.3         |
| 5        | 25  | 145    | 0.809 | 36.9 | 0.434 | 0.408 | 0.395 | 0.410 | 4399        | 67.8         | 8010        | 36.2         |
| 5        | 26  | 146    | 0.814 | 37.1 | 0.433 | 0.407 | 0.395 | 0.408 | 4392        | 67.7         | 8030        | 36.3         |
| 5        | 27  | 147    | 0.812 | 37.0 | 0.432 | 0.405 | 0.391 | 0.406 | 4385        | 67.7         | 8020        | 36.3         |
| 5        | 28  | 148    | 0.812 | 37.1 | 0.433 | 0.403 | 0.390 | 0.404 | 4392        | 67.8         | 8000        | 36.2         |
| 5        | 29  | 149    | 0.808 | 37.1 | 0.430 | 0.405 | 0.390 | 0.406 | 4391        | 67.6         | 8020        | 36.2         |
| 5        | 30  | 150    | 0.801 | 38.0 |       |       |       |       | 4378        | 67.6         | 6023        | 36.1         |
| 5        | 31  | 151    | 0.816 | 38.1 | 0.450 | 0.437 | 0.406 | 0.437 | 4379        | 67.6         | 7990        | 36.1         |
| 6        | 1   | 152    | 0.816 | 37.9 | 0.450 | 0.434 | 0.407 | 0.435 | 4378        | 67.6         | 7990        | 36.4         |
| 6        | 2   | 153    | 0.816 | 37.9 | 0.449 | 0.431 | 0.406 | 0.431 | 4378        | 67.6         | 8000        | 36.1         |
| 6        | 3   | 154    | 0.817 | 37.8 | 0.453 | 0.434 | 0.407 | 0.432 | 4372        | 67.6         | 7980        | 36.1         |
| 6        | 4   | 155    | 0.820 | 37.9 | 0.453 | 0.437 | 0.411 | 0.437 | 4379        | 67.7         | 8000        | 36.1         |
| 6        | 5   | 156    | 0.819 | 38.0 | 0.452 | 0.436 | 0.410 | 0.436 | 4379        | 67.7         | 7990        | 36.2         |
| 6        | 6   | 157    | 0.814 | 37.9 | 0.451 | 0.432 | 0.407 | 0.433 | 4385        | 67.5         | 8010        | 36.1         |
| 6        | 7   | 158    | 0.819 | 37.8 | 0.456 | 0.429 | 0.408 | 0.430 | 4372        | 67.6         | 8000        | 36.0         |
| 6        | 8   | 159    | 0.815 | 38.0 | 0.453 | 0.430 | 0.403 | 0.431 | 4379        | 67.7         | 7990        | 36.2         |
| 6        | 9   | 160    | 0.820 | 37.9 | 0.455 | 0.435 | 0.411 | 0.435 | 4379        | 67.6         | 7980        | 36.2         |
| 6        | 10  | 161    | 0.821 | 37.9 | 0.453 | 0.433 | 0.408 | 0.432 | 4372        | 67.6         | 8010        | 36.1         |
| 6        | 11  | 162    | 0.817 | 37.9 | 0.453 | 0.434 | 0.406 | 0.435 | 4379        | 67.6         | 7970        | 36.3         |
| 6        | 12  | 163    |       | 37.8 | 0.451 | 0.434 | 0.406 | 0.434 | 4379        | 67.6         | 7990        | 36.1         |
| 6        | 13  | 164    |       | 37.9 | 0.454 | 0.436 | 0.406 | 0.436 | 4379        | 67.6         | 8010        | 36.1         |
| 6        | 14  | 165    |       | 37.9 | 0.454 | 0.436 | 0.408 | 0.437 | 4380        | 67.6         | 7990        | 36.1         |
| 6        | 15  | 166    |       | 37.9 | 0.456 | 0.433 | 0.409 | 0.434 | 4380        | 67.6         | 8000        | 36.0         |
| 6        | 16  | 167    |       | 38.0 | 0.456 | 0.436 | 0.406 | 0.435 | 4380        | 67.6         | 7990        | 36.1         |
| 6        | 17  | 168    |       | 37.9 | 0.458 | 0.437 | 0.409 | 0.436 | 4379        | 67.6         | 7990        | 36.1         |
| 6        | 18  | 169    |       | 37.8 | 0.460 | 0.434 | 0.405 | 0.434 | 4380        | 67.6         | 8000        | 36.1         |
| 6        | 19  | 170    |       | 37.8 | 0.456 | 0.428 | 0.400 | 0.427 | 4380        | 67.7         | 8000        | 36.1         |
| 6        | 20  | 171    |       | 37.9 | 0.459 | 0.432 | 0.403 | 0.432 | 4380        | 67.5         | 8010        | 36.1         |
| 6        | 21  | 172    |       | 37.6 | 0.454 | 0.430 | 0.406 | 0.430 | 4386        | 67.7         | 8010        | 36.3         |
| 6        | 22  | 173    |       | 37.9 | 0.456 | 0.431 | 0.402 | 0.431 | 4393        | 67.7         | 8010        | 36.3         |
| 6        | 23  | 174    |       | 37.9 | 0.457 | 0.430 | 0.399 | 0.429 | 4387        | 67.7         | 7990        | 36.3         |
| 6        | 24  | 175    |       | 37.7 | 0.456 | 0.427 | 0.394 | 0.428 | 4393        | 67.6         | 8020        | 36.1         |
| 6        | 25  | 176    |       | 38.0 | 0.454 | 0.427 | 0.399 | 0.428 | 4387        | 67.7         | 8010        | 36.1         |
| 6        | 26  | 177    | 0.764 | 37.8 | 0.452 | 0.429 | 0.377 | 0.430 | 4379        | 67.6         | 7990        | 36.0         |
| 6        | 27  | 178    | 0.749 | 38.0 | 0.445 | 0.454 | 0.392 | 0.456 | 4379        | 67.6         | 7980        | 36.1         |
| 6        | 28  | 179    | 0.735 | 38.8 | 0.443 | 0.447 | 0.394 | 0.449 | 4379        | 67.5         | 8010        | 36.1         |
| 6        | 29  | 180    | 0.731 | 38.9 | 0.442 | 0.446 | 0.398 | 0.449 | 4379        | 67.6         | 8000        | 36.1         |

Daily Span Values from January 21, 1991 - September 30, 1991

| Calendar |     | Julian | O3    | CO   | SO2   | NO    | NO2   | NOx   | Dil<br>Flow | Tank<br>Flow | Dil<br>Flow | Tank<br>Flow |
|----------|-----|--------|-------|------|-------|-------|-------|-------|-------------|--------------|-------------|--------------|
| Month    | Day | Day    | ppm   | ppm  | ppm   | ppm   | ppm   | ppm   | CO          | CO           | SO2/NO      | SO2/NO       |
| 6        | 30  | 181    | 0.733 | 39.0 | 0.449 | 0.448 | 0.399 | 0.450 | 4379        | 67.6         | 8010        | 36.0         |
| 7        | 1   | 182    | 0.828 |      |       |       |       |       | 4372        | 67.6         | 7990        | 36.1         |
| 7        | 2   | 183    | 0.827 | 39.1 | 0.448 | 0.449 | 0.400 | 0.453 | 4372        | 67.5         | 7990        | 36.1         |
| 7        | 3   | 184    | 0.832 | 39.1 | 0.446 | 0.447 | 0.399 | 0.449 | 4379        | 67.5         | 7980        | 36.1         |
| 7        | 4   | 185    | 0.831 | 39.1 | 0.445 | 0.445 | 0.394 | 0.447 | 4372        | 67.6         | 7990        | 36.0         |
| 7        | 5   | 186    | 0.829 | 39.3 | 0.448 | 0.446 | 0.393 | 0.446 | 4379        | 67.6         | 7970        | 36.1         |
| 7        | 6   | 187    | 0.803 | 39.3 | 0.448 | 0.446 | 0.392 | 0.447 | 4379        | 67.6         | 8010        | 36.1         |
| 7        | 7   | 188    | 0.770 | 39.3 | 0.444 | 0.449 | 0.398 | 0.448 | 4379        | 67.6         | 7990        | 36.0         |
| 7        | 8   | 189    | 0.729 | 39.1 | 0.443 | 0.442 | 0.392 | 0.444 | 4379        | 67.6         | 7990        | 36.1         |
| 7        | 9   | 190    | 0.748 | 39.5 | 0.444 | 0.441 | 0.395 | 0.444 | 4371        | 67.5         | 8000        | 36.1         |
| 7        | 10  | 191    | 0.751 | 39.4 | 0.446 | 0.443 | 0.394 | 0.442 | 4385        | 67.6         | 7980        | 36.1         |
| 7        | 11  | 192    | 0.855 | 39.6 | 0.449 | 0.449 | 0.402 | 0.450 | 4372        | 67.6         | 7990        | 36.0         |
| 7        | 12  | 193    |       |      | 0.452 | 0.446 | 0.402 | 0.446 | 4384        | 67.5         | 7980        | 36.1         |
| 7        | 13  | 194    |       |      | 0.452 | 0.445 | 0.405 | 0.446 | 4372        | 67.6         | 8000        | 36.0         |
| 7        | 14  | 195    | 0.869 |      | 0.448 | 0.447 | 0.404 | 0.448 | 4379        | 67.6         | 7960        | 36.1         |
| 7        | 15  | 196    | 0.841 |      | 0.450 | 0.441 | 0.383 | 0.440 | 4378        | 67.5         | 7980        | 36.1         |
| 7        | 16  | 197    | 0.862 | 37.5 | 0.446 | 0.444 | 0.395 | 0.445 | 4379        | 67.6         | 8010        | 36.3         |
| 7        | 17  | 198    | 0.858 | 38.0 | 0.450 | 0.442 | 0.393 | 0.443 | 4372        | 67.5         | 8000        | 36.0         |
| 7        | 18  | 199    | 0.874 | 38.0 | 0.446 | 0.445 | 0.402 | 0.447 | 4379        | 67.5         | 7990        | 36.0         |
| 7        | 19  | 200    | 0.870 | 37.8 | 0.444 | 0.437 | 0.394 | 0.437 | 4378        | 67.6         | 8000        | 36.1         |
| 7        | 20  | 201    | 0.873 | 37.8 | 0.449 | 0.441 | 0.403 | 0.443 | 4379        | 67.5         | 7990        | 36.1         |
| 7        | 21  | 202    | 0.871 | 37.8 | 0.451 | 0.441 | 0.398 | 0.443 | 4385        | 67.5         | 7990        | 36.1         |
| 7        | 22  | 203    | 0.794 | 37.8 | 0.451 | 0.444 | 0.406 | 0.445 | 4379        | 67.4         | 7990        | 36.1         |
| 7        | 23  | 204    | 0.797 | 37.9 | 0.465 | 0.474 | 0.410 | 0.473 | 4377        | 67.5         | 8000        | 36.1         |
| 7        | 24  | 205    | 0.788 | 37.8 | 0.463 | 0.463 | 0.401 | 0.465 | 4377        | 67.5         | 7980        | 36.1         |
| 7        | 25  | 206    | 0.786 | 37.9 | 0.457 | 0.460 | 0.394 | 0.457 | 4384        | 67.6         | 8000        | 36.3         |
| 7        | 26  | 207    | 0.786 | 37.9 | 0.460 | 0.463 | 0.397 | 0.461 | 4377        | 67.5         | 8000        | 36.1         |
| 7        | 27  | 208    | 0.787 | 37.8 | 0.461 | 0.464 | 0.396 | 0.464 | 4377        | 67.5         | 7990        | 36.3         |
| 7        | 28  | 209    | 0.786 | 37.8 | 0.463 | 0.460 | 0.394 | 0.459 | 4377        | 67.5         | 7990        | 36.1         |
| 7        | 29  | 210    | 0.779 | 37.7 | 0.456 | 0.458 | 0.393 | 0.457 | 4377        | 67.5         | 8010        | 36.1         |
| 7        | 30  | 211    | 0.785 | 37.7 | 0.456 | 0.459 | 0.396 | 0.459 | 4377        | 67.5         | 8020        | 36.1         |
| 7        | 31  | 212    | 0.785 | 37.8 | 0.457 | 0.457 | 0.395 | 0.458 | 4377        | 67.5         | 8010        | 36.1         |
| 8        | 1   | 213    | 0.781 | 37.8 | 0.455 | 0.457 | 0.393 | 0.455 | 4377        | 67.5         | 8000        | 36.3         |
| 8        | 2   | 214    | 0.783 | 37.7 | 0.454 | 0.457 | 0.401 | 0.459 | 4377        | 67.6         | 8000        | 36.1         |
| 8        | 3   | 215    | 0.785 | 37.7 | 0.456 | 0.457 | 0.403 | 0.456 | 4377        | 67.5         | 8000        | 36.3         |
| 8        | 4   | 216    | 0.782 | 37.6 | 0.461 | 0.456 | 0.401 | 0.456 | 4377        | 67.5         | 8000        | 36.1         |
| 8        | 5   | 217    | 0.782 | 37.6 | 0.460 | 0.456 | 0.398 | 0.457 | 4377        | 67.5         | 7990        | 36.1         |
| 8        | 6   | 218    | 0.784 | 37.7 | 0.462 | 0.457 | 0.398 | 0.458 | 4377        | 67.5         | 8000        | 36.1         |
| 8        | 7   | 219    | 0.785 | 37.7 | 0.465 | 0.451 | 0.400 | 0.453 | 4371        | 67.5         | 8020        | 36.3         |
| 8        | 8   | 220    | 0.997 | 50.0 | 0.462 | 0.455 | 0.444 | 0.456 | 27          | 67.4         | 1813        | 36.1         |
| 8        | 9   | 221    | 0.783 | 37.7 | 0.456 | 0.449 | 0.400 | 0.450 | 4377        | 67.5         | 8000        | 36.0         |
| 8        | 10  | 222    | 0.782 | 37.9 | 0.458 | 0.452 | 0.397 | 0.450 | 4377        | 67.5         | 8000        | 36.1         |
| 8        | 11  | 223    | 0.787 | 37.9 | 0.458 | 0.453 | 0.400 | 0.451 | 4377        | 67.5         | 8000        | 36.3         |
| 8        | 12  | 224    | 0.792 | 37.7 | 0.458 | 0.450 | 0.402 | 0.452 | 4377        | 67.5         | 7990        | 36.0         |
| 8        | 13  | 225    | 0.788 | 37.8 | 0.458 | 0.449 | 0.401 | 0.449 | 4377        | 67.5         | 8000        | 36.2         |

Daily Span Values from January 21, 1991 - September 30, 1991

| Calendar |     | Julian | O3    | CO   | SO2   | NO    | NO2   | NOx   | Dil<br>Flow | Tank<br>Flow | Dil<br>Flow   | Tank<br>Flow  |
|----------|-----|--------|-------|------|-------|-------|-------|-------|-------------|--------------|---------------|---------------|
| Month    | Day | Day    | ppm   | ppm  | ppm   | ppm   | ppm   | ppm   | CO<br>scm   | CO<br>scm    | SO2/NO<br>scm | SO2/NO<br>scm |
| 8        | 14  | 226    | 0.782 | 37.7 | 0.464 | 0.451 | 0.397 | 0.454 | 4377        | 67.5         | 7990          | 36.1          |
| 8        | 15  | 227    | 0.785 | 37.6 | 0.462 | 0.449 | 0.396 | 0.450 | 4371        | 67.5         | 7990          | 36.1          |
| 8        | 16  | 228    | 0.790 | 37.6 | 0.459 | 0.454 | 0.401 | 0.454 | 4377        | 67.5         | 7980          | 36.0          |
| 8        | 17  | 229    | 0.791 | 37.6 | 0.461 | 0.454 | 0.401 | 0.454 | 4377        | 67.5         | 7990          | 36.3          |
| 8        | 18  | 230    | 0.788 | 37.8 | 0.462 | 0.453 | 0.400 | 0.454 | 4371        | 67.5         | 8000          | 36.2          |
| 8        | 19  | 231    | 0.785 | 37.7 | 0.457 | 0.451 | 0.397 | 0.450 | 4377        | 67.5         | 8000          | 36.1          |
| 8        | 20  | 232    | 0.786 | 37.5 | 0.466 | 0.454 | 0.394 | 0.452 | 4377        | 67.5         | 7980          | 36.1          |
| 8        | 21  | 233    | 0.785 | 37.8 | 0.465 | 0.447 | 0.394 | 0.446 | 4384        | 67.6         | 8000          | 36.3          |
| 8        | 22  | 234    | 0.803 | 38.2 | 0.463 | 0.454 | 0.407 | 0.453 | 4379        | 67.6         | 8010          | 36.1          |
| 8        | 23  | 235    | 0.786 | 37.7 | 0.460 | 0.449 | 0.395 | 0.449 | 4384        | 67.5         | 7990          | 36.1          |
| 8        | 24  | 236    | 0.790 | 37.8 | 0.462 | 0.448 | 0.396 | 0.449 | 4377        | 67.5         | 7980          | 36.2          |
| 8        | 25  | 237    | 0.793 | 38.0 | 0.465 | 0.451 | 0.394 | 0.450 | 4371        | 67.5         | 8010          | 36.2          |
| 8        | 26  | 238    | 0.790 | 38.2 | 0.464 | 0.447 | 0.391 | 0.447 | 4377        | 67.5         | 8000          | 36.1          |
| 8        | 27  | 239    | 0.000 | 0.0  | 0.000 | 0.000 | 0.000 | 0.000 | -7          | -0.1         | -7            | -0.1          |
| 8        | 28  | 240    | 0.790 | 38.3 | 0.452 | 0.434 | 0.394 | 0.431 | 4397        | 67.7         | 8020          | 36.3          |
| 8        | 29  | 241    | 0.793 | 38.1 | 0.463 | 0.457 | 0.408 | 0.456 | 4384        | 67.7         | 8000          | 36.3          |
| 8        | 30  | 242    | 0.780 | 38.3 | 0.467 | 0.465 | 0.402 | 0.464 | 4384        | 67.6         | 7990          | 36.1          |
| 8        | 31  | 243    | 0.779 | 38.2 | 0.462 | 0.461 | 0.407 | 0.461 | 4377        | 67.5         | 8000          | 36.1          |
| 9        | 1   | 244    | 0.776 | 38.0 | 0.462 | 0.460 | 0.402 | 0.460 | 4371        | 67.4         | 7980          | 36.1          |
| 9        | 2   | 245    | 0.779 | 38.1 | 0.466 | 0.459 | 0.402 | 0.458 | 4364        | 67.4         | 7980          | 36.1          |
| 9        | 3   | 246    | 0.785 | 38.1 | 0.472 | 0.466 | 0.406 | 0.469 | 4364        | 67.4         | 7980          | 36.0          |
| 9        | 4   | 247    | 0.776 | 38.2 | 0.463 | 0.459 | 0.402 | 0.458 | 4364        | 67.4         | 7980          | 36.0          |
| 9        | 5   | 248    | 0.775 | 38.1 | 0.465 | 0.458 | 0.401 | 0.457 | 4364        | 67.3         | 8010          | 36.0          |
| 9        | 6   | 249    | 0.777 | 38.1 | 0.461 | 0.451 | 0.399 | 0.453 | 4364        | 67.4         | 7980          | 35.9          |
| 9        | 7   | 250    | 0.779 | 38.0 | 0.459 | 0.454 | 0.403 | 0.456 | 4371        | 67.5         | 7980          | 36.1          |
| 9        | 8   | 251    | 0.787 | 38.1 | 0.461 | 0.462 | 0.406 | 0.462 | 4364        | 67.5         | 7980          | 36.1          |
| 9        | 9   | 252    | 0.783 | 38.1 | 0.464 | 0.460 | 0.405 | 0.458 | 4364        | 67.4         | 7980          | 36.0          |
| 9        | 10  | 253    | 0.781 | 50.0 | 0.462 | 0.456 | 0.180 | 0.456 | 4364        | 67.4         | -27           | 36.1          |
| 9        | 11  | 254    | 0.783 | 38.0 | 0.462 | 0.454 | 0.400 | 0.455 | 4364        | 67.4         | 7980          | 35.9          |
| 9        | 12  | 255    | 0.784 | 38.0 | 0.462 | 0.452 | 0.397 | 0.452 | 4364        | 67.4         | 7990          | 36.0          |
| 9        | 13  | 256    | 0.783 | 38.0 | 0.461 | 0.445 | 0.392 | 0.447 | 4364        | 67.4         | 8000          | 35.9          |
| 9        | 14  | 257    | 0.783 | 37.9 | 0.464 | 0.452 | 0.396 | 0.451 | 4364        | 67.3         | 7980          | 36.0          |
| 9        | 15  | 258    | 0.795 | 38.1 | 0.465 | 0.455 | 0.406 | 0.455 | 4357        | 67.4         | 7980          | 36.0          |
| 9        | 16  | 259    | 0.787 | 38.0 | 0.466 | 0.449 | 0.396 | 0.449 | 4364        | 67.4         | 8000          | 36.0          |
| 9        | 17  | 260    | 0.796 | 38.0 | 0.475 | 0.455 | 0.400 | 0.454 | 4364        | 67.4         | 8000          | 36.1          |
| 9        | 18  | 261    | 0.804 | 38.1 | 0.467 | 0.451 | 0.408 | 0.450 | 4364        | 67.4         | 7970          | 35.9          |
| 9        | 19  | 262    | 0.796 | 38.1 | 0.466 | 0.445 | 0.400 | 0.446 | 4364        | 67.4         | 7980          | 36.0          |
| 9        | 20  | 263    | 0.777 | 38.0 | 0.467 | 0.442 | 0.389 | 0.442 | 4371        | 67.4         | 8000          | 36.0          |
| 9        | 21  | 264    | 0.788 | 38.0 | 0.465 | 0.444 | 0.393 | 0.442 | 4364        | 67.5         | 7980          | 36.0          |
| 9        | 22  | 265    | 0.793 | 38.2 | 0.462 | 0.449 | 0.403 | 0.449 | 4364        | 67.3         | 7980          | 36.0          |
| 9        | 23  | 266    | 0.811 | 38.2 | 0.467 | 0.450 | 0.410 | 0.450 | 4357        | 67.4         | 7980          | 36.1          |
| 9        | 24  | 267    | 0.804 | 38.3 | 0.472 | 0.453 | 0.403 | 0.451 | 4384        | 67.7         | 7990          | 36.1          |
| 9        | 25  | 268    | 0.808 | 38.2 | 0.473 | 0.454 | 0.412 | 0.453 | 4384        | 67.7         | 8000          | 36.3          |
| 9        | 26  | 269    | 0.802 | 38.1 | 0.467 | 0.447 | 0.405 | 0.447 | 4397        | 67.7         | 8000          | 36.4          |
| 9        | 27  | 270    | 0.806 | 38.1 | 0.465 | 0.449 | 0.404 | 0.451 | 4391        | 67.7         | 8000          | 36.3          |

Daily Span Values from January 21, 1991 - September 30, 1991

| Calendar |     | Julian | O3    | CO   | SO2   | NO    | NO2   | NOx   | Dil<br>Flow | Tank<br>Flow | Dil<br>Flow    | Tank<br>Flow   |
|----------|-----|--------|-------|------|-------|-------|-------|-------|-------------|--------------|----------------|----------------|
| Month    | Day | Day    | ppm   | ppm  | ppm   | ppm   | ppm   | ppm   | CO<br>scem  | CO<br>scem   | SO2/NO<br>scem | SO2/NO<br>scem |
| 9        | 28  | 271    | 0.797 | 38.2 | 0.462 | 0.450 | 0.404 | 0.451 | 4391        | 67.7         | 8020           | 36.3           |
| 9        | 29  | 272    | 0.811 | 38.2 | 0.468 | 0.455 | 0.409 | 0.454 | 4384        | 67.7         | 8000           | 36.3           |
| 9        | 30  | 273    | 0.802 | 38.3 | 0.466 | 0.448 | 0.407 | 0.448 | 4384        | 67.6         | 8040           | 36.3           |

G3    AUDIT RESULTS

Summary Tables from  
First Quarter 1991 Audit Report



TABLE 4.1-1 (Sheet 1 of 2)  
HIGH VOLUME SAMPLERS  
TSP - PM<sub>10</sub> - PUF  
AUDIT SUMMARY

TSP SAMPLERS

| Site | Audit<br>Flow (SCFM) | Operator<br>Determined<br>Flow (SCFM) | Percent<br>Difference |
|------|----------------------|---------------------------------------|-----------------------|
| 1A   | 41.6                 | 40.2                                  | -3.4                  |
| 2A   | 41.3                 | 40.0                                  | -3.2                  |
| 3A   | 39.8                 | 39.9                                  | 0.0                   |
| 4A   | 40.5                 | 39.9                                  | -1.4                  |
| 5A   | 41.7                 | 40.3                                  | -3.2                  |
| 5B   | 40.3                 | 40.1                                  | -0.4                  |
| 6A   | 41.0                 | 40.2                                  | -0.9                  |
| 7A   | 39.8                 | 40.0                                  | +0.5                  |
| 8A   | 40.8                 | 39.5                                  | -3.2                  |
| 9A   | 40.0                 | 40.0                                  | 0.0                   |
| 10A  | 40.6                 | 40.3                                  | -0.9                  |
| 11A  | 39.6                 | 39.9                                  | -0.7                  |
| 12A  | 39.7                 | 40.2                                  | +1.2                  |
| FC1A | 39.8                 | 38.9                                  | -2.2                  |
| FC2A | 41.7                 | 39.9                                  | -4.3                  |
| FC3A | 36.8                 | 40.1                                  | +8.9                  |
| FC4A | 40.9                 | 40.1                                  | -2.0                  |
| FC5A | 40.0                 | 39.8                                  | -0.6                  |
| M1A  | 38.5                 | 40.1                                  | +4.1                  |
| M2A  | 39.2                 | 40.0                                  | +2.1                  |
| M3A  | 38.2                 | 39.9                                  | +4.2                  |
| M4A  | 39.4                 | 39.9                                  | +1.2                  |

TABLE 4.1-1 (Sheet 2 of 2)  
HIGH VOLUME SAMPLERS  
TSP - PM<sub>10</sub> - PUF  
AUDIT SUMMARY

**PM<sub>10</sub> SAMPLERS**

| Site | Audit<br>Flow (SCFM) | Operator<br>Determined<br>Flow (SCFM) | Percent<br>Difference |
|------|----------------------|---------------------------------------|-----------------------|
| 1B   | 35.7                 | 35.5                                  | -0.7                  |
| 2B   | 35.8                 | 35.9                                  | +0.4                  |
| 3B   | 35.8                 | 35.5                                  | -0.8                  |
| 5C   | 35.8                 | 34.4                                  | -3.8                  |
| 5D   | 35.8                 | 35.8                                  | 0.0                   |
| 9B   | 35.6                 | 35.7                                  | +0.2                  |
| 10B  | 35.7                 | 35.9                                  | +0.6                  |
| FC1B | 35.0                 | 34.9                                  | -0.4                  |
| FC3B | 35.8                 | 35.7                                  | -0.3                  |
| M2B  | 35.6                 | 35.4                                  | -0.7                  |

**PUF SAMPLERS**

| Site   | Audit<br>Flow (SLM) | Operator<br>Determined<br>Flow (SLM) | Percent<br>Difference |
|--------|---------------------|--------------------------------------|-----------------------|
| 1C     | 194                 | 191                                  | -1.5                  |
| 2C     | 190                 | 188                                  | -1.0                  |
| 3C     | 191                 | 188                                  | -1.6                  |
| 5E     | 194                 | 195                                  | +0.5                  |
| 5F     | 213                 | 223                                  | +4.7                  |
| 5G     | 187                 | 176                                  | -5.9                  |
| FC1C   | 190                 | 193                                  | +1.4                  |
| FC1D   | 174                 | 177                                  | +1.8                  |
| FC2B   | 190                 | 189                                  | -0.5                  |
| FC3    | 188                 | 194                                  | +3.7                  |
| FC4    | 207                 | 210                                  | +1.4                  |
| FC5    | 200                 | 193                                  | -1.6                  |
| M1C    | 167                 | 207                                  | +20.9                 |
| M2C    | 191                 | 179                                  | -6.2                  |
| M3C    | 185                 | 186                                  | +0.7                  |
| M4C    | 187                 | 195                                  | +4.0                  |
| BF7    | 187                 | 190                                  | +1.6                  |
| RIFS1  | 197                 | 202                                  | 2.5                   |
| RIFS1D | 193                 | 196                                  | +1.3                  |

TABLE 4.2-1  
SAMPLE PUMPS  
ASBESTOS - VOC - MERCURY  
AUDIT SUMMARY

| Instrument/ID             | Audit Flow<br>(SCCM) | Operator<br>Flow (SCCM) | Percent<br>Difference |
|---------------------------|----------------------|-------------------------|-----------------------|
| Micromax 11199            | 6487                 | 7000                    | +7.9                  |
| Micromax 07792            | 6449                 | 7000                    | +8.5                  |
| Micromax 03311            | 6487                 | 7000                    | +7.9                  |
| Micromax 03316            | 6300                 | 7000                    | +11.1                 |
| Micromax 03314            | 6601                 | 7000                    | +6.0                  |
| Micromax 03312            | 6201                 | 7000                    | +12.9                 |
| Sierra 821-2<br>S/N: 3327 | 300                  | 300                     | 0.0                   |
| AQ2D                      | 189                  | 200                     | +5.8                  |
| AQ3D                      | 186                  | 200                     | +7.5                  |
| AQ5D                      | 184                  | 200                     | +8.7                  |
| FC1E                      | 192                  | 200                     | +4.2                  |
| FC1F                      | 186                  | 200                     | +7.5                  |
| FC2                       | 194                  | 200                     | +3.1                  |
| FC3                       | 186                  | 200                     | +7.5                  |
| FC4                       | 189                  | 200                     | +5.8                  |
| FC5                       | 192                  | 200                     | +4.2                  |

TABLE 4.3-1 (Sheet 1 of 2)  
METEOROLOGICAL SYSTEM AUDIT RESULTS SUMMARY

| WIND SPEED (MPH)    |                                     |                  |                                      |                  |                                      |                  |                                      |              |                           |                         |
|---------------------|-------------------------------------|------------------|--------------------------------------|------------------|--------------------------------------|------------------|--------------------------------------|--------------|---------------------------|-------------------------|
| Input               | 119.9 RPM<br>6.3 MPH <sup>(1)</sup> |                  | 300.1 RPM<br>14.9 MPH <sup>(1)</sup> |                  | 600.2 RPM<br>29.3 MPH <sup>(1)</sup> |                  | Starting<br>Torque g.cm <sup>2</sup> |              |                           |                         |
| Site                | Response (MPH)                      | Difference (MPH) | Response (MPH)                       | Difference (MPH) | Response (MPH)                       | Difference (MPH) |                                      |              |                           |                         |
| MET 1               | 6.3                                 | 0.0              | 14.9                                 | 0.0              | 29.2                                 | -0.1             | <0.2                                 |              |                           |                         |
| MET 2               | 6.2                                 | -0.1             | 14.9                                 | 0.0              | 29.2                                 | -0.1             | <0.2                                 |              |                           |                         |
| MET 3               | 6.2                                 | -0.1             | 14.8                                 | -0.1             | 29.3                                 | 0.0              | <0.2                                 |              |                           |                         |
| MET 4               | 5.8                                 | -0.5             | 15.2                                 | +0.3             | 29.2                                 | -0.1             | <0.2                                 |              |                           |                         |
| WIND DIRECTION (°)  |                                     |                  |                                      |                  |                                      |                  |                                      |              |                           |                         |
| Linearity Check     |                                     |                  |                                      |                  |                                      |                  |                                      |              |                           |                         |
| Site                | North                               |                  | East                                 |                  | South                                |                  | West                                 |              | Oriented to<br>True North | Starting<br>Torque g.cm |
|                     | Response                            | Difference       | Response                             | Difference       | Response                             | Difference       | Response                             | Difference   |                           |                         |
| MET 1               | 0                                   | 0                | 91                                   | +1               | 182                                  | +2               | 272                                  | +2           | Yes                       | 8.0                     |
| MET 2               | 1                                   | +1               | 92                                   | +2               | 182                                  | +2               | 271                                  | +1           | Yes                       | 5.0                     |
| MET 3               | 1                                   | +1               | 92                                   | +2               | 182                                  | +2               | 273                                  | +3           | Yes                       | 6.0                     |
| MET 4               | 364                                 | +4               | 93                                   | +3               | 183                                  | +3               | 273                                  | +3           | Yes                       | 9.0                     |
| TEMPERATURE °C (°F) |                                     |                  |                                      |                  |                                      |                  |                                      |              |                           |                         |
| Site                | Low Point                           |                  | Mid Point                            |                  | High Point                           |                  |                                      |              |                           |                         |
|                     | Audit                               | Response         | Audit                                | Response         | Audit                                | Response         | Audit                                | Response     | Difference                |                         |
| MET 1 (10M)         | 0.10 (32.2)                         | 0.06(32.1)       | 21.80 (71.2)                         | 21.44 (671.5)    | +0.14 (+0.43                         | 35.50 (95.4)     | 35.55 (96.0)                         | +0.05 (+0.1) |                           |                         |
| MET 1 (10M)         | N/A                                 | —                | 10.1 (50.2)                          | 10.1 (5032)      | 0.0 (0.0)                            | N/A              |                                      |              |                           |                         |
| MET 1 (2M)          | 0.10 (32.2)                         | 0.10 (32.1)      | 20.80 (69.4)                         | 20.94 (69.7)     | +0.14 (+0.3)                         | 35.55 (96.0)     | 35.67 (96.2)                         | +0.12 (+0.2) |                           |                         |
| MET 2               | 0.10 (32.2)                         | -0.06 (31.9)     | 25.05 (77.1)                         | 25.06 (77.1)     | 0.01 (0.0)                           | 36.35 (97.4)     | 36.27 (97.7)                         | -0.08 (-0.1) |                           |                         |
| MET 3               | 0.10 (32.2)                         | -0.06 (31.9)     | 21.40 (70.5)                         | 21.39 (70.5)     | +0.01 (0.0)                          | 36.15 (97.1)     | 36.22 (97.2)                         | +0.07 (+0.1) |                           |                         |
| MET 4               | 0.10 (32.2)                         | 0.10 (32.2)      | 21.95 (71.5)                         | 21.94 (71.5)     | -0.01 (0.0)                          | 36.60 (97.9)     | 36.56 (97.8)                         | -0.04 (-0.1) |                           |                         |
| RELATIVE HUMIDITY   |                                     |                  |                                      |                  |                                      |                  |                                      |              |                           |                         |
| Site                | Audit                               |                  | Response                             |                  | Dew Point<br>Difference              |                  |                                      |              |                           |                         |
|                     | RH                                  | Dew Point        | RH                                   | Dew Point        |                                      |                  |                                      |              |                           |                         |
| MET 1               | 20.1                                | -12.0            | 17.8                                 | -13.3            | -1.3                                 |                  |                                      |              |                           |                         |

TABLE 4.3-1 (Sheet 2 of 2)  
METEOROLOGICAL SYSTEM AUDIT RESULTS SUMMARY

| SOLAR RADIATION (LANGLEY PER HOUR)           |                |                 |                                    |            |
|--|----------------|-----------------|------------------------------------|------------|
| Site   | Sensor Covered | System          |                                    |            |
| MET 2  | --             | -0.02           |                                    |            |
| MET 3  | --             | -0.001          |                                    |            |
| RAIN FALL ("H <sub>2</sub> O)                |                |                 |                                    |            |
| Site   | Audit Value    |                 | System Response<br>Rain Equivalent | Difference |
|  | Volume (cc)    | Rain Equivalent |                                    |            |
| MET 1  | 100            | .13             | .12                                | -0.01      |
| MET 2  | 100            | .13             | .12                                | -0.01      |
| MET 3  | 100            | .13             | .14                                | +0.02      |
| MET 4  | 100            | .22             | .24                                | .02        |
| (1) MPH = [(RPM/3RPM)/6.95] + 0.5.           |                |                 |                                    |            |
| (2) Acceptable W/S starting Torque <0.2g.cm. |                |                 |                                    |            |

Summary Tables from  
Second Quarter 1991 Audit Report

TABLE 4.1-1 (Sheet 1 of 2)  
HIGH VOLUME SAMPLERS  
TSP - PM<sub>10</sub> - PUF  
AUDIT SUMMARY

**TSP SAMPLERS**

| Site  | Operator<br>Determined<br>Flow (SCFM) | Audit<br>Flow (SCFM) | Percent<br>Difference |
|-------|---------------------------------------|----------------------|-----------------------|
| 1A    | 40.3                                  | 39.9                 | 1.1                   |
| 2A    | 40.0                                  | 40.4                 | -1.1                  |
| 3A    | 40.0                                  | 41.8                 | -4.4                  |
| 4A    | 39.9                                  | 40.5                 | -1.4                  |
| 5A    | 39.3                                  | 41.6                 | -5.4                  |
| 5B    | 39.9                                  | 39.6                 | +0.8                  |
| 6A    | 39.7                                  | 44.0                 | -9.8                  |
| 7A    | 40.4                                  | 41.3                 | -2.1                  |
| 8A    | 40.0                                  | 40.0                 | 0.0                   |
| 9A    | 40.3                                  | 39.8                 | +1.2                  |
| 10A   | 40.1                                  | 40.2                 | -0.3                  |
| 11A   | 39.9                                  | 40.4                 | -1.3                  |
| 12A   | 39.8                                  | 40.1                 | -0.8                  |
| FC1A  | 39.9                                  | 40.4                 | -1.3                  |
| FC2A  | 39.7                                  | 40.4                 | -1.6                  |
| FC3A  | 40.1                                  | 41.2                 | -2.6                  |
| FC4A  | 40.1                                  | 41.3                 | -3.0                  |
| FC5A  | 39.9                                  | 40.5                 | -1.4                  |
| M1A   | 39.8                                  | 38.8                 | +3.9                  |
| M2A   | 40.0                                  | 39.3                 | +1.1                  |
| QI-1A | 39.4                                  | 40.6                 | -1.8                  |
| QI-2A | 39.9                                  | 38.2                 | +4.4                  |

TABLE 4.1-1 (Sheet 2 of 2)  
HIGH VOLUME SAMPLERS  
TSP - PM<sub>10</sub> - PUF  
AUDIT SUMMARY

PM<sub>10</sub> SAMPLERS

| Site  | Operator<br>Determined<br>Flow (SCFM) | Audit<br>Flow (SCFM) | Percent<br>Difference |
|-------|---------------------------------------|----------------------|-----------------------|
| 1B    | 33.8                                  | 35.4                 | -1.2                  |
| 2B    | 33.7                                  | 33.9                 | -0.7                  |
| 3B    | 33.5                                  | 34.3                 | -2.2                  |
| 5C    | 33.8                                  | 34.5                 | -2.1                  |
| 5D    | 33.6                                  | 34.3                 | -2.2                  |
| 9B    | 34.1                                  | 35.3                 | -3.5                  |
| 10B   | 33.7                                  | 34.0                 | -0.9                  |
| FC1B  | 33.6                                  | 34.0                 | -1.2                  |
| QI-1B | 33.7                                  | 33.9                 | -0.7                  |
| QI-2B | 33.6                                  | 34.7                 | -3.3                  |

PUF SAMPLERS

| Site   | Operator<br>Determined<br>Flow (SLM) | Audit<br>Flow (SLM) | Percent<br>Difference |
|--------|--------------------------------------|---------------------|-----------------------|
| 1C     | 186                                  | 178                 | 4.7                   |
| 2C     | 178                                  | 171                 | 4.1                   |
| 3C     | 187                                  | 176                 | 6.1                   |
| 5E     | 182                                  | 174                 | 4.6                   |
| 5F     | 184                                  | 174                 | 5.7                   |
| 5G     | 174                                  | 164                 | 5.9                   |
| FC1C   | 188                                  | 180                 | 4.7                   |
| FC1D   | 197                                  | 186                 | 6.0                   |
| FC2B   | 205                                  | 198                 | 3.7                   |
| FC3    | 174                                  | 167                 | 4.0                   |
| FC4    | 189                                  | 183                 | 3.2                   |
| FC5    | 183                                  | 185                 | -1.1                  |
| M1C    | 183                                  | 171                 | 7.3                   |
| M2C    | 185                                  | 174                 | 6.2                   |
| M3C    | 176                                  | 168                 | 4.8                   |
| M4C    | 180                                  | 174                 | 3.4                   |
| RIFS1  | 178                                  | 171                 | 4.4                   |
| RIFS1D | 180                                  | 171                 | 5.5                   |
| QI-1C  | 180                                  | 169                 | 6.3                   |
| QI-2C  | 189                                  | 175                 | 7.9                   |



TABLE 4.2-1  
SAMPLE PUMPS  
ASBESTOS - VOC - MERCURY  
AUDIT SUMMARY

| Instrument/ID          | Audit Flow<br>(SCCM) | Operator<br>Flow (SCCM) | Absolute<br>Difference |
|------------------------|----------------------|-------------------------|------------------------|
| <b><u>ASBESTOS</u></b> |                      |                         |                        |
| Micromax 11199         | 7334                 | 7000                    | 334                    |
| Micromax 07792         | 7324                 | 7000                    | 324                    |
| Micromax 03311         | 7409                 | 7000                    | 409                    |
| Micromax 03316         | 7135                 | 7000                    | 135                    |
| Micromax 03314         | 6918                 | 7000                    | 82                     |
| Micromax 03312         | 7022                 | 7000                    | 22                     |
| Sierra 821-2           | 294                  | 300                     | 6                      |
| S/N: 3327              | 196                  | 200                     | 4                      |
| Siera 821-2            | 285                  | 300                     | 15                     |
| S/N: 2390              | 183                  | 200                     | 17                     |
| <b><u>VOC</u></b>      |                      |                         |                        |
| 2D                     | 202                  | 200                     | 2                      |
| 3D                     | 179                  | 200                     | 21                     |
| 5H                     | 190                  | 200                     | 10                     |
| FC1E                   | 187                  | 200                     | 13                     |
| FC1E (COLOC)           | 196                  | 200                     | 4                      |
| FC2C                   | 190                  | 200                     | 10                     |
| FC3D                   | 193                  | 200                     | 7                      |
| FC4C                   | 196                  | 200                     | 4                      |
| FC5C                   | 190                  | 200                     | 10                     |
| QI-1D                  | 187                  | 200                     | 13                     |
| QI-2D                  | 187                  | 200                     | 13                     |
| <b><u>MERCURY</u></b>  |                      |                         |                        |
| 2D                     | 291                  | 300                     | 9                      |
| 3D                     | 294                  | 300                     | 6                      |
| 5H                     | 298                  | 300                     | 2                      |
| FC1E                   | 291                  | 300                     | 9                      |
| FC1E (COLOC)           | —                    | —                       | —                      |
| FC2C                   | 294                  | 300                     | 6                      |
| FC3D                   | 287                  | 300                     | 13                     |
| FC34C                  | 287                  | 300                     | 13                     |
| FC5C                   | 291                  | 300                     | 9                      |
| QI-1D                  | 291                  | 300                     | 9                      |
| QI-2D                  | 305                  | 300                     | 5                      |

Summary Tables from  
Third Quarter 1991 Audit Report

TABLE 4.1-1 (Sheet 1 of 2)  
HIGH VOLUME SAMPLERS  
TSP - PM<sub>10</sub> - PUF  
AUDIT SUMMARY

TSP SAMPLERS

| Site  | Operator<br>Determined<br>Flow (SCFM) | Audit<br>Flow (SCFM) | Percent<br>Difference |
|-------|---------------------------------------|----------------------|-----------------------|
| 1A    | 40.3                                  | 40.1                 | +0.4                  |
| 2A    | 40.0                                  | 38.7                 | +3.3                  |
| 3A    | 39.6                                  | 40.3                 | -1.6                  |
| 4A    | 39.9                                  | 38.1                 | +4.8                  |
| 5A    | 39.3                                  | 40.4                 | -2.7                  |
| 5B    | 39.9                                  | 39.5                 | +1.1                  |
| 6A    | 39.7                                  | 41.1                 | -3.4                  |
| 7A    | 40.4                                  | 39.5                 | +2.2                  |
| 8A    | 40.0                                  | 38.1                 | +5.1                  |
| 9A    | 40.3                                  | 39.0                 | +3.4                  |
| 10A   | 41.5                                  | 40.3                 | +2.9                  |
| 11A   | 39.3                                  | 39.7                 | -0.9                  |
| 12A   | 39.8                                  | 40.1                 | -0.7                  |
| FC1A  | 39.9                                  | 40.0                 | -0.2                  |
| FC2A  | 39.7                                  | 38.3                 | +3.3                  |
| FC3A  | 40.1                                  | 39.1                 | +2.5                  |
| FC4A  | 40.1                                  | 40.7                 | -1.4                  |
| FC5A  | 39.9                                  | 38.5                 | +3.7                  |
| M1A   | 34.9                                  | 35.3                 | -1.2                  |
| M2A   | 39.9                                  | 39.5                 | +1.0                  |
| M3A   | 34.4                                  | 35.8                 | -4.0                  |
| QI-1A | 39.9                                  | 38.8                 | +2.9                  |
| QI-2A | 39.8                                  | 38.2                 | +4.2                  |

TABLE 4.1-1 (Sheet 2 of 2)  
HIGH VOLUME SAMPLERS  
TSP - PM<sub>10</sub> - PUF  
AUDIT SUMMARY

**PM<sub>10</sub> SAMPLERS**

| Site  | Operator<br>Determined<br>Flow (SCFM) | Audit<br>Flow (SCFM) | Percent<br>Difference |
|-------|---------------------------------------|----------------------|-----------------------|
| 1B    | 33.7                                  | 32.7                 | +3.0                  |
| 2B    | 33.7                                  | 33.5                 | +0.5                  |
| 3B    | 33.5                                  | 33.4                 | +0.3                  |
| 5C    | 33.8                                  | 33.6                 | +0.5                  |
| 5D    | 33.6                                  | 33.7                 | -0.3                  |
| 9B    | 34.0                                  | 33.6                 | +1.3                  |
| 10B   | 33.6                                  | 33.8                 | -0.7                  |
| FC1B  | 33.6                                  | 33.4                 | +0.6                  |
| QI-1B | 33.7                                  | 33.3                 | +1.1                  |
| QI-2B | 33.6                                  | 33.4                 | +0.6                  |

**PUF SAMPLERS**

| Site   | Operator<br>Determined<br>Flow (SLM) | Audit<br>Flow (SLM) | Percent<br>Difference |
|--------|--------------------------------------|---------------------|-----------------------|
| 1C     | 188                                  | 169                 | +11.1                 |
| 2C     | 172                                  | 163                 | +5.8                  |
| 3C     | 183                                  | 168                 | +9.0                  |
| 5E     | 176                                  | 166                 | +5.7                  |
| 5F     | 183                                  | 173                 | +5.8                  |
| 5G     | 175                                  | 165                 | +6.3                  |
| FC1C   | 163                                  | 151                 | +8.1                  |
| FC1D   | 173                                  | 165                 | +5.1                  |
| FC2B   | 182                                  | 168                 | +8.1                  |
| FC3C   | 158                                  | 148                 | +7.1                  |
| FC4B   | 190                                  | 178                 | +6.8                  |
| FC5B   | 177                                  | 167                 | +5.8                  |
| M1C    | 179                                  | 171                 | +4.9                  |
| M2C    | 179                                  | 174                 | +3.0                  |
| M3C    | 177                                  | 164                 | +7.9                  |
| M4C    | 183                                  | 167                 | +9.3                  |
| RIFS1  | 176                                  | 168                 | +4.7                  |
| RIFS1D | 180                                  | 171                 | 5.5                   |
| QI-1C  | 178                                  | 171                 | +4.2                  |
| QI-2C  | 190                                  | 174                 | +9.2                  |

TABLE 4.2-1  
SAMPLE PUMPS  
ASBESTOS - VOC - MERCURY  
AUDIT SUMMARY

| Instrument/ID          | Audit Flow<br>(SCCM) | Operator<br>Flow (SCCM) | Absolute<br>Difference |
|------------------------|----------------------|-------------------------|------------------------|
| <b><u>ASBESTOS</u></b> |                      |                         |                        |
| Micromax 11199         | 6824                 | 7000                    | 176                    |
| Micromax 07792         | 6521                 | 7000                    | 479                    |
| Micromax 03311         | 6735                 | 7000                    | 265                    |
| Micromax 03316         | 6911                 | 7000                    | 89                     |
| Micromax 03314         | 6843                 | 7000                    | 157                    |
| Micromax 03312         | 7146                 | 7000                    | 146                    |
| Sierra 821-2           | 297                  | 300                     | 3                      |
| S/N: 3327              | 199                  | 200                     | 1                      |
| Siera 821-2            | 292                  | 300                     | 8                      |
| S/N: 2390              | 199                  | 200                     | 1                      |
| <b><u>VOC</u></b>      |                      |                         |                        |
| 2D                     | 188                  | 200                     | 12                     |
| 3D                     | 185                  | 200                     | 15                     |
| 5H                     | 191                  | 200                     | 9                      |
| FC1E                   | 191                  | 200                     | 9                      |
| FC2C                   | 191                  | 200                     | 9                      |
| FC3D                   | 185                  | 200                     | 15                     |
| FC4C                   | 191                  | 200                     | 9                      |
| FC5C                   | 191                  | 200                     | 9                      |
| QI-1D                  | 194                  | 200                     | 6                      |
| QI-2D                  | 188                  | 200                     | 12                     |
| M1D                    | 185                  | 200                     | 15                     |
| <b><u>MERCURY</u></b>  |                      |                         |                        |
| 2D                     | 285                  | 300                     | 15                     |
| 3D                     | 292                  | 300                     | 8                      |
| 5H                     | 295                  | 300                     | 5                      |
| FC1E                   | 288                  | 300                     | 12                     |
| FC2C                   | 302                  | 300                     | 2                      |
| FC3D                   | 292                  | 300                     | 8                      |
| FC4C                   | 288                  | 300                     | 12                     |
| FC5C                   | 288                  | 300                     | 12                     |
| QI-1D                  | 288                  | 300                     | 12                     |
| QI-2D                  | 278                  | 300                     | 22                     |
| M1D                    | 295                  | 300                     | 5                      |

TABLE 4.3-1 (Sheet 1 of 2)  
METEOROLOGICAL SYSTEM AUDIT RESULTS SUMMARY

| WIND SPEED (MPH)    |                                     |                  |                                      |                  |                                      |                  |  |               |                           |                         |
|---------------------|-------------------------------------|------------------|--------------------------------------|------------------|--------------------------------------|------------------|--|---------------|---------------------------|-------------------------|
| Input               | 119.9 RPM<br>6.3 MPH <sup>(1)</sup> |                  | 300.1 RPM<br>14.9 MPH <sup>(1)</sup> |                  | 600.2 RPM<br>29.3 MPH <sup>(1)</sup> |                  | Starting<br>Torque g.cm <sup>(2)</sup> |               |                           |                         |
|                     | Response (MPH)                      | Difference (MPH) | Response (MPH)                       | Difference (MPH) | Response (MPH)                       | Difference (MPH) |  |               |                           |                         |
| Site                |                                     |                  |                                      |                  |                                      |                  |  |               |                           |                         |
| MET 1               | 6.2                                 | -0.1             | 14.9                                 | 0.0              | 28.9                                 | -0.4             | <0.2                                   |               |                           |                         |
| MET 2               | 6.0                                 | -0.3             | 14.8                                 | -0.1             | 28.9                                 | -0.4             | <0.2                                   |               |                           |                         |
| MET 3               | 6.2                                 | -0.1             | 14.9                                 | 0.0              | 29.1                                 | -0.2             | <0.2                                   |               |                           |                         |
| MET 4               | 5.8                                 | -0.5             | 14.6                                 | -0.3             | 29.1                                 | -0.2             | <0.2                                   |               |                           |                         |
| WIND DIRECTION (°)  |                                     |                  |                                      |                  |                                      |                  |  |               |                           |                         |
| Linearity Check     |                                     |                  |                                      |                  |                                      |                  |  |               |                           |                         |
| Site                | North                               |                  | East                                 |                  | South                                |                  | West                                   |               | Oriented to<br>True North | Starting<br>Torque g.cm |
|                     | Response                            | Difference       | Response                             | Difference       | Response                             | Difference       | Response                               | Difference    |                           |                         |
|                     |                                     |                  |                                      |                  |                                      |                  |  |               |                           |                         |
| MET 1               | 0                                   | 0                | 92                                   | +2               | 182                                  | +2               | 272                                    | +2            | Yes                       | 6.0                     |
| MET 2               | 1                                   | +1               | 91                                   | +1               | 180                                  | 0                | 269                                    | -1            | Yes                       | 7.0                     |
| MET 3               | 0                                   | 0                | 90                                   | 0                | 180                                  | 0                | 268                                    | -2            | Yes                       | 6.0                     |
| MET 4               | 4                                   | +4               | 92                                   | +2               | 177                                  | -3               | 265                                    | -5            | Yes                       | 3.0                     |
| TEMPERATURE °C (°F) |                                     |                  |                                      |                  |                                      |                  |  |               |                           |                         |
| Site                | Low Point                           |                  | Mid Point                            |                  | High Point                           |                  |  |               |                           |                         |
|                     | Audit                               | Response         | Audit                                | Response         | Audit                                | Response         | Audit                                  | Response      | Difference                |                         |
| MET 1 (2M)          | 0.10 (32.2)                         | 0.06 (32.1)      | 30.70 (87.3)                         | 30.83 (87.5)     | 42.05 (107.7)                        | 42.17 (107.9)    | 42.05 (107.7)                          | 42.17 (107.9) | +0.12 (0.2)               |                         |
| MET 1 (10M)         | 0.10 (32.2)                         | 0.22 (32.4)      | 32.50 (90.5)                         | 32.67 (90.8)     | 41.75 (107.2)                        | 42.05 (107.7)    | 41.75 (107.2)                          | 42.05 (107.7) | +0.30 (0.5)               |                         |
| MET 1 (10M)         | -                                   | -                | 32.17 (89.8)                         | 32.17 (89.9)     | -                                    | -                | -                                      | -             | -                         |                         |
| MET 2               | 0.10 (32.2)                         | -0.06 (31.9)     | 31.65 (89.0)                         | 31.56 (88.8)     | 41.80 (107.2)                        | 41.67 (107.0)    | 41.80 (107.2)                          | 41.67 (107.0) | -0.13 (0.2)               |                         |
| MET 3               | 6.55 (43.8)                         | 6.72 (44.1)      | 26.10 (79.0)                         | 26.06 (78.9)     | 41.80 (107.2)                        | 41.89 (107.4)    | 41.80 (107.2)                          | 41.89 (107.4) | +0.09 (0.2)               |                         |
| MET 4               | 0.10 (32.2)                         | 0.06 (32.1)      | 34.35 (93.8)                         | 34.28 (93.7)     | 41.95 (107.5)                        | 41.78 (107.2)    | 41.95 (107.5)                          | 41.78 (107.2) | -0.17 (0.3)               |                         |
| RELATIVE HUMIDITY   |                                     |                  |                                      |                  |                                      |                  |  |               |                           |                         |
| Site                | Audit                               |                  | Response                             |                  | Dew Point<br>Difference (°C)         |                  |  |               |                           |                         |
|                     | %RH                                 | Dew Point (°C)   | %RH                                  | Dew Point (°C)   |                                      |                  |  |               |                           |                         |
| MET 1               |                                     | 8.5              | 14.0                                 | 1.4              | 7.1                                  |                  |  |               |                           |                         |

TABLE 4.3-1 (Sheet 2 of 2)  
METEOROLOGICAL SYSTEM AUDIT RESULTS SUMMARY

| SOLAR RADIATION (LANGLEY PER HOUR)           |                |                 |                                    |            |
|--|----------------|-----------------|------------------------------------|------------|
| Site   | Sensor Covered | System          |                                    |            |
| MET 2  | -              | -0.02           |                                    |            |
| MET 3  | -              | -0.001          |                                    |            |
| RAIN FALL ("H <sub>2</sub> O)                |                |                 |                                    |            |
| Site   | Audit Value    |                 | System Response<br>Rain Equivalent | Difference |
|  | Volume (cc)    | Rain Equivalent |                                    |            |
| MET 1  | 100            | 0.13            | 0.12                               | -0.01      |
| MET 2  | 100            | 0.13            | 0.15                               | +0.02      |
| MET 3  | 100            | 0.13            | 0.13                               | 0.00       |
| MET 4  | 100            | 0.22            | 0.24                               | +0.02      |
| (1) MPH = [(RPM/3RPM)/6.95] + 0.5.           |                |                 |                                    |            |
| (2) Acceptable W/S starting Torque <0.2g.cm. |                |                 |                                    |            |

## APPENDIX H

### CONTINUOUS AIR QUALITY DATA (ON DISKETTE)

|    |                                     |
|----|-------------------------------------|
| H1 | Carbon Monoxide (CO)                |
| H2 | Ozone (O <sub>3</sub> )             |
| H3 | Sulfur Dioxide (SO <sub>2</sub> )   |
| H4 | Nitric Oxide (NO)                   |
| H5 | Nitrogen Dioxide (NO <sub>2</sub> ) |
| H6 | Nitrogen Oxides (NO <sub>x</sub> )  |



WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: RMA(COMPOSITE)

Period: 1/21/91 thru 1/31/91

Month and year of record: JANUARY, 91

| OZONE (PPB) |         |         |         |     | CARBON MONOXIDE (PPM) |         |         |     | SULFUR DIOXIDE (PPB) |         |         |     |
|-------------|---------|---------|---------|-----|-----------------------|---------|---------|-----|----------------------|---------|---------|-----|
| HR          | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM               | MAXIMUM | AVERAGE | OBS | MINIMUM              | MAXIMUM | AVERAGE | OBS |
| 1           | 1.00    | 43.22   | 17.55   | 10  | 0.21                  | 1.23    | 0.58    | 10  | 1.00                 | 2.38    | 1.15    | 9   |
| 2           | 1.00    | 43.04   | 21.99   | 10  | 0.21                  | 0.89    | 0.43    | 10  | 1.00                 | 3.87    | 1.32    | 9   |
| 3           | 1.00    | 44.02   | 25.90   | 10  | 0.21                  | 0.83    | 0.36    | 10  | 1.00                 | 1.00    | 1.00    | 9   |
| 4           | 1.00    | 35.43   | 22.37   | 10  | 0.10                  | 0.92    | 0.37    | 10  | 1.00                 | 5.06    | 1.45    | 9   |
| 5           | 1.00    | 41.43   | 23.28   | 10  | 0.10                  | 1.00    | 0.36    | 10  | 1.00                 | 4.35    | 1.37    | 9   |
| 6           | 2.19    | 38.92   | 20.61   | 10  | 0.10                  | 1.86    | 0.49    | 10  | 1.00                 | 3.32    | 1.45    | 9   |
| 7           | 1.00    | 37.17   | 17.58   | 10  | 0.20                  | 1.50    | 0.57    | 10  | 1.00                 | 8.82    | 2.26    | 9   |
| 8           | 2.84    | 32.58   | 12.87   | 10  | 0.21                  | 1.63    | 0.94    | 10  | 1.00                 | 10.16   | 2.41    | 9   |
| 9           | 6.78    | 31.83   | 15.52   | 10  | 0.23                  | 2.51    | 1.35    | 10  | 1.00                 | 8.40    | 2.33    | 9   |
| 10          | 8.56    | 34.21   | 20.64   | 10  | 0.25                  | 3.28    | 1.32    | 10  | 1.00                 | 6.43    | 2.67    | 9   |
| 11          | 13.88   | 40.01   | 29.04   | 10  | 0.25                  | 3.05    | 0.87    | 10  | 1.00                 | 4.88    | 1.84    | 9   |
| 12          | 19.37   | 45.23   | 34.39   | 10  | 0.29                  | 1.17    | 0.57    | 10  | 1.00                 | 2.63    | 1.56    | 8   |
| 13          | 24.25   | 54.79   | 38.26   | 10  | 0.10                  | 1.50    | 0.53    | 10  | 1.00                 | 4.12    | 1.55    | 10  |
| 14          | 24.35   | 61.54   | 40.09   | 10  | 0.10                  | 1.51    | 0.52    | 10  | 1.00                 | 2.47    | 1.15    | 10  |
| 15          | 18.20   | 59.53   | 41.14   | 8   | 0.10                  | 0.91    | 0.38    | 9   | 1.00                 | 3.25    | 1.23    | 10  |
| 16          | 21.00   | 45.11   | 38.84   | 10  | 0.10                  | 0.95    | 0.35    | 10  | 1.00                 | 3.25    | 1.22    | 10  |
| 17          | 20.76   | 43.89   | 34.84   | 10  | 0.10                  | 0.69    | 0.34    | 11  | 1.00                 | 2.92    | 1.19    | 10  |
| 18          | 14.35   | 40.26   | 28.02   | 11  | 0.10                  | 0.85    | 0.38    | 11  | 1.00                 | 2.38    | 1.14    | 10  |
| 19          | 6.37    | 40.19   | 21.85   | 11  | 0.10                  | 0.92    | 0.48    | 11  | 1.00                 | 2.13    | 1.11    | 10  |
| 20          | 1.00    | 37.28   | 13.29   | 11  | 0.26                  | 1.82    | 0.77    | 11  | 1.00                 | 8.97    | 1.90    | 10  |
| 21          | 1.00    | 39.91   | 14.69   | 11  | 0.27                  | 3.14    | 0.95    | 11  | 1.00                 | 6.20    | 1.74    | 10  |
| 22          | 1.00    | 42.46   | 12.97   | 11  | 0.25                  | 1.90    | 0.76    | 11  | 1.00                 | 5.60    | 1.83    | 10  |
| 23          | 1.00    | 38.70   | 14.95   | 11  | 0.25                  | 1.10    | 0.65    | 11  | 1.00                 | 1.00    | 1.00    | 10  |
| 24          | 1.00    | 42.97   | 14.48   | 11  | 0.20                  | 1.67    | 0.66    | 11  | 1.00                 | 3.03    | 1.20    | 10  |
|             | 1.00    | 61.54   | 23.97   | 245 | 0.10                  | 3.28    | 0.62    | 247 | 1.00                 | 10.16   | 1.55    | 227 |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: RMA(COMPOSITE)

Period: 1/21/91 thru 1/31/91

Month and year of record: JANUARY, 91

| NITRIC OXIDE (PPB) |         |         |         |     | NITROGEN DIOXIDE (PPB) |         |         |     | NITROGEN OXIDES (PPB) |         |         |     |
|--------------------|---------|---------|---------|-----|------------------------|---------|---------|-----|-----------------------|---------|---------|-----|
| HR                 | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM                | MAXIMUM | AVERAGE | OBS | MINIMUM               | MAXIMUM | AVERAGE | OBS |
| 1                  | 1.00    | 46.79   | 11.08   | 8   | 1.00                   | 49.90   | 26.32   | 8   | 1.00                  | 90.10   | 37.58   | 8   |
| 2                  | 1.00    | 17.40   | 3.98    | 8   | 1.00                   | 49.06   | 21.41   | 8   | 1.00                  | 65.84   | 25.35   | 8   |
| 3                  | 1.00    | 30.82   | 5.48    | 8   | 1.00                   | 50.18   | 17.33   | 8   | 1.00                  | 78.60   | 22.79   | 8   |
| 4                  | 1.00    | 40.76   | 6.48    | 8   | 4.90                   | 47.20   | 22.34   | 8   | 3.54                  | 88.70   | 28.61   | 8   |
| 5                  | 1.00    | 42.20   | 6.56    | 8   | 1.00                   | 46.76   | 20.37   | 8   | 1.00                  | 89.70   | 26.93   | 8   |
| 6                  | 1.00    | 114.30  | 18.17   | 8   | 1.00                   | 55.37   | 23.53   | 8   | 1.00                  | 170.30  | 41.54   | 8   |
| 7                  | 1.00    | 73.90   | 16.14   | 8   | 2.12                   | 55.69   | 25.69   | 8   | 1.00                  | 127.80  | 41.79   | 8   |
| 8                  | 1.00    | 93.40   | 29.72   | 8   | 2.87                   | 54.94   | 31.98   | 8   | 1.00                  | 145.20  | 62.01   | 8   |
| 9                  | 1.00    | 86.00   | 40.51   | 8   | 4.76                   | 60.87   | 33.50   | 8   | 6.78                  | 143.40  | 74.83   | 8   |
| 10                 | 2.74    | 80.30   | 37.63   | 8   | 4.76                   | 52.36   | 31.60   | 8   | 8.53                  | 133.40  | 70.06   | 8   |
| 11                 | 2.81    | 70.60   | 19.71   | 8   | 6.18                   | 46.18   | 18.98   | 8   | 11.04                 | 117.50  | 39.60   | 8   |
| 12                 | 5.13    | 44.70   | 17.49   | 6   | 7.38                   | 43.24   | 21.07   | 6   | 13.49                 | 88.70   | 39.47   | 6   |
| 13                 | 2.83    | 43.76   | 16.87   | 6   | 2.84                   | 58.22   | 22.73   | 6   | 6.70                  | 102.70  | 40.50   | 6   |
| 14                 | 5.48    | 38.63   | 14.89   | 7   | 1.00                   | 58.85   | 20.75   | 7   | 8.20                  | 98.20   | 36.63   | 7   |
| 15                 | 2.71    | 26.89   | 11.40   | 8   | 2.22                   | 46.68   | 17.62   | 8   | 5.88                  | 74.30   | 29.96   | 8   |
| 16                 | 1.00    | 23.44   | 8.87    | 8   | 2.62                   | 45.16   | 15.12   | 8   | 6.55                  | 69.37   | 24.97   | 8   |
| 17                 | 1.00    | 11.68   | 5.44    | 9   | 2.61                   | 35.99   | 15.63   | 9   | 3.45                  | 48.60   | 21.96   | 9   |
| 18                 | 1.00    | 10.37   | 3.90    | 9   | 5.78                   | 33.82   | 17.57   | 9   | 6.52                  | 45.05   | 22.08   | 9   |
| 19                 | 1.00    | 10.96   | 3.53    | 9   | 3.90                   | 43.41   | 18.70   | 9   | 4.88                  | 55.19   | 22.83   | 9   |
| 20                 | 1.00    | 79.00   | 13.27   | 9   | 3.58                   | 47.83   | 30.11   | 9   | 3.94                  | 127.50  | 44.06   | 9   |
| 21                 | 1.00    | 168.40  | 29.26   | 9   | 3.76                   | 62.80   | 31.82   | 9   | 3.62                  | 231.60  | 61.69   | 9   |
| 22                 | 1.00    | 89.50   | 19.81   | 9   | 2.78                   | 60.84   | 32.25   | 9   | 2.42                  | 150.90  | 52.65   | 9   |
| 23                 | 1.00    | 28.66   | 11.86   | 9   | 1.00                   | 46.35   | 27.50   | 9   | 1.00                  | 74.60   | 40.01   | 9   |
| 24                 | 1.00    | 73.30   | 14.03   | 9   | 1.00                   | 52.02   | 29.81   | 9   | 1.00                  | 126.00  | 44.48   | 9   |
| 1.00               | 168.40  | 15.25   | 195     |     | 1.00                   | 62.80   | 23.91   | 195 | 1.00                  | 231.60  | 39.68   | 195 |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: RMA(COMPOSITE)

Period: 2/ 1/91 thru 2/28/91

Month and year of record: FEBRUARY, 91

| OZONE (PPB) |         |         |         |     | CARBON MONOXIDE (PPM) |         |         |     |  | SULFUR DIOXIDE (PPB) |         |         |     |  |
|-------------|---------|---------|---------|-----|-----------------------|---------|---------|-----|--|----------------------|---------|---------|-----|--|
| HR          | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM               | MAXIMUM | AVERAGE | OBS |  | MINIMUM              | MAXIMUM | AVERAGE | OBS |  |
| 1           | 1.00    | 41.54   | 9.67    | 28  | 0.10                  | 1.82    | 0.79    | 28  |  | 1.00                 | 5.51    | 1.58    | 17  |  |
| 2           | 1.00    | 39.07   | 8.77    | 28  | 0.10                  | 1.33    | 0.66    | 28  |  | 1.00                 | 3.99    | 1.31    | 17  |  |
| 3           | 1.00    | 41.09   | 10.53   | 28  | 0.10                  | 1.20    | 0.56    | 28  |  | 1.00                 | 2.65    | 1.24    | 17  |  |
| 4           | 1.00    | 40.63   | 10.52   | 28  | 0.10                  | 0.94    | 0.52    | 28  |  | 1.00                 | 4.63    | 1.39    | 16  |  |
| 5           | 1.00    | 40.54   | 11.16   | 28  | 0.10                  | 1.71    | 0.54    | 28  |  | 1.00                 | 6.88    | 1.62    | 16  |  |
| 6           | 1.00    | 34.57   | 10.27   | 28  | 0.25                  | 1.58    | 0.56    | 28  |  | 1.00                 | 6.37    | 1.45    | 16  |  |
| 7           | 1.00    | 27.58   | 7.37    | 28  | 0.10                  | 1.64    | 0.68    | 28  |  | 1.00                 | 3.36    | 1.22    | 16  |  |
| 8           | 1.00    | 28.81   | 7.91    | 28  | 0.10                  | 1.91    | 0.99    | 28  |  | 1.00                 | 4.19    | 1.54    | 16  |  |
| 9           | 3.91    | 31.64   | 13.10   | 28  | 0.10                  | 2.28    | 1.18    | 28  |  | 1.00                 | 2.57    | 1.26    | 15  |  |
| 10          | 5.88    | 36.47   | 19.85   | 27  | 0.10                  | 2.45    | 1.03    | 28  |  | 1.00                 | 6.85    | 1.99    | 14  |  |
| 11          | 5.85    | 42.21   | 27.47   | 27  | 0.10                  | 1.98    | 0.79    | 28  |  | 1.00                 | 18.47   | 2.94    | 13  |  |
| 12          | 9.05    | 44.07   | 32.76   | 27  | 0.10                  | 1.38    | 0.59    | 26  |  | 1.00                 | 27.77   | 4.13    | 14  |  |
| 13          | 11.89   | 48.88   | 36.06   | 26  | 0.10                  | 1.24    | 0.47    | 28  |  | 1.00                 | 32.44   | 4.88    | 14  |  |
| 14          | 21.40   | 50.19   | 38.97   | 27  | 0.10                  | 1.51    | 0.44    | 27  |  | 1.00                 | 12.37   | 2.98    | 13  |  |
| 15          | 25.41   | 51.66   | 40.96   | 28  | 0.10                  | 0.89    | 0.35    | 28  |  | 1.00                 | 11.40   | 1.92    | 14  |  |
| 16          | 26.76   | 50.91   | 40.71   | 28  | 0.10                  | 0.82    | 0.33    | 28  |  | 1.00                 | 8.53    | 1.86    | 15  |  |
| 17          | 10.29   | 46.63   | 36.65   | 28  | 0.10                  | 1.05    | 0.38    | 28  |  | 1.00                 | 9.55    | 1.90    | 15  |  |
| 18          | 1.00    | 45.61   | 30.83   | 28  | 0.10                  | 1.63    | 0.44    | 28  |  | 1.00                 | 7.69    | 1.81    | 17  |  |
| 19          | 1.00    | 45.86   | 24.25   | 28  | 0.10                  | 1.55    | 0.50    | 28  |  | 1.00                 | 6.54    | 1.90    | 17  |  |
| 20          | 1.00    | 37.50   | 19.55   | 28  | 0.10                  | 1.89    | 0.61    | 28  |  | 1.00                 | 7.73    | 1.96    | 17  |  |
| 21          | 1.00    | 35.55   | 15.00   | 28  | 0.10                  | 3.26    | 0.92    | 28  |  | 1.00                 | 6.94    | 2.02    | 17  |  |
| 22          | 1.00    | 40.73   | 13.29   | 28  | 0.10                  | 4.32    | 1.09    | 28  |  | 1.00                 | 6.86    | 2.78    | 17  |  |
| 23          | 1.00    | 43.72   | 10.26   | 28  | 0.10                  | 3.38    | 1.06    | 28  |  | 1.00                 | 6.11    | 2.45    | 17  |  |
| 24          | 1.00    | 44.43   | 9.01    | 28  | 0.10                  | 2.55    | 0.92    | 28  |  | 1.00                 | 4.93    | 1.96    | 17  |  |
|             | 1.00    | 51.66   | 20.21   | 666 | 0.10                  | 4.32    | 0.68    | 669 |  | 1.00                 | 32.44   | 2.09    | 377 |  |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: RMA(COMPOSITE)

Period: 2/ 1/91 thru 2/28/91

Month and year of record: FEBRUARY, 91

| NITRIC OXIDE (PPB) |         |         |         |     | NITROGEN DIOXIDE (PPB) |         |         |     | NITROGEN OXIDES (PPB) |         |         |     |
|--------------------|---------|---------|---------|-----|------------------------|---------|---------|-----|-----------------------|---------|---------|-----|
| HR                 | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM                | MAXIMUM | AVERAGE | OBS | MINIMUM               | MAXIMUM | AVERAGE | OBS |
| 1                  | 1.00    | 65.94   | 18.88   | 28  | 1.00                   | 56.12   | 29.65   | 28  | 3.80                  | 122.70  | 49.40   | 28  |
| 2                  | 1.00    | 59.27   | 12.15   | 28  | 3.11                   | 53.40   | 28.35   | 28  | 5.32                  | 103.10  | 41.33   | 28  |
| 3                  | 1.00    | 26.77   | 7.51    | 28  | 3.51                   | 50.09   | 25.46   | 28  | 7.24                  | 77.60   | 33.81   | 28  |
| 4                  | 1.00    | 31.60   | 6.64    | 28  | 4.32                   | 43.62   | 24.93   | 28  | 7.52                  | 69.26   | 32.39   | 28  |
| 5                  | 1.00    | 86.10   | 10.34   | 28  | 3.95                   | 46.97   | 25.14   | 28  | 7.42                  | 133.20  | 36.27   | 28  |
| 6                  | 1.00    | 93.30   | 12.78   | 28  | 5.30                   | 49.41   | 26.36   | 28  | 11.32                 | 143.30  | 39.97   | 28  |
| 7                  | 1.00    | 79.70   | 16.70   | 28  | 5.76                   | 49.66   | 30.04   | 28  | 10.47                 | 130.00  | 47.63   | 28  |
| 8                  | 2.09    | 109.70  | 33.07   | 28  | 3.08                   | 50.21   | 32.35   | 28  | 6.10                  | 149.00  | 66.21   | 28  |
| 9                  | 2.27    | 95.50   | 36.22   | 27  | 3.72                   | 49.02   | 31.49   | 27  | 6.91                  | 145.10  | 68.50   | 27  |
| 10                 | 3.03    | 91.50   | 30.28   | 26  | 3.11                   | 54.78   | 29.99   | 26  | 7.04                  | 145.80  | 61.08   | 26  |
| 11                 | 1.00    | 93.80   | 22.19   | 25  | 1.00                   | 68.85   | 22.67   | 25  | 3.72                  | 163.10  | 45.68   | 25  |
| 12                 | 1.00    | 65.86   | 15.72   | 27  | 1.00                   | 60.44   | 19.20   | 27  | 1.00                  | 126.90  | 35.84   | 27  |
| 13                 | 1.00    | 46.77   | 10.59   | 27  | 1.00                   | 60.25   | 14.79   | 27  | 1.00                  | 107.70  | 26.36   | 27  |
| 14                 | 1.00    | 38.11   | 7.63    | 28  | 1.00                   | 68.74   | 11.85   | 28  | 2.54                  | 107.50  | 20.43   | 28  |
| 15                 | 1.00    | 21.26   | 5.74    | 28  | 1.00                   | 39.04   | 8.11    | 28  | 2.01                  | 61.11   | 14.81   | 28  |
| 16                 | 1.00    | 14.04   | 5.12    | 28  | 1.00                   | 35.54   | 7.60    | 28  | 1.00                  | 50.39   | 13.60   | 28  |
| 17                 | 1.00    | 32.71   | 5.65    | 28  | 1.00                   | 52.61   | 11.23   | 28  | 1.00                  | 86.10   | 17.78   | 28  |
| 18                 | 1.00    | 36.53   | 5.03    | 28  | 1.00                   | 89.30   | 15.88   | 28  | 2.14                  | 126.50  | 21.70   | 28  |
| 19                 | 1.00    | 44.76   | 6.69    | 28  | 2.16                   | 84.20   | 20.38   | 28  | 1.00                  | 116.90  | 27.84   | 28  |
| 20                 | 1.00    | 86.50   | 11.52   | 28  | 1.00                   | 79.00   | 25.17   | 28  | 1.00                  | 137.00  | 37.48   | 28  |
| 21                 | 1.00    | 144.90  | 27.47   | 28  | 1.00                   | 73.50   | 29.67   | 28  | 2.55                  | 218.80  | 57.88   | 28  |
| 22                 | 1.00    | 200.40  | 38.29   | 28  | 2.33                   | 85.80   | 31.67   | 28  | 4.03                  | 276.60  | 70.70   | 28  |
| 23                 | 1.00    | 163.80  | 35.70   | 28  | 3.01                   | 79.10   | 33.09   | 28  | 4.23                  | 243.20  | 69.53   | 28  |
| 24                 | 1.00    | 121.60  | 24.62   | 28  | 2.39                   | 64.65   | 32.42   | 28  | 5.86                  | 186.70  | 57.85   | 28  |
|                    | 1.00    | 200.40  | 16.94   | 664 | 1.00                   | 89.30   | 23.65   | 664 | 1.00                  | 276.60  | 41.42   | 664 |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: RMA(COMPOSITE)

Period: 3/ 1/91 thru 3/31/91

Month and year of record: MARCH, 91

| OZONE (PPB) |         |         |         |     | CARBON MONOXIDE (PPM) |         |         |     | SULFUR DIOXIDE (PPB) |         |         |     |
|-------------|---------|---------|---------|-----|-----------------------|---------|---------|-----|----------------------|---------|---------|-----|
| HR          | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM               | MAXIMUM | AVERAGE | OBS | MINIMUM              | MAXIMUM | AVERAGE | OBS |
| 1           | 1.00    | 52.87   | 23.12   | 31  | 0.10                  | 1.36    | 0.41    | 31  | 1.00                 | 10.82   | 1.80    | 31  |
| 2           | 1.00    | 53.21   | 24.87   | 31  | 0.10                  | 1.29    | 0.38    | 31  | 1.00                 | 7.47    | 1.69    | 31  |
| 3           | 1.00    | 50.56   | 25.52   | 31  | 0.10                  | 1.36    | 0.34    | 31  | 1.00                 | 3.05    | 1.07    | 31  |
| 4           | 1.00    | 50.52   | 25.64   | 31  | 0.10                  | 1.11    | 0.31    | 31  | 1.00                 | 5.03    | 1.22    | 31  |
| 5           | 1.00    | 50.73   | 25.84   | 31  | 0.10                  | 1.08    | 0.28    | 31  | 1.00                 | 4.84    | 1.35    | 31  |
| 6           | 1.00    | 50.43   | 23.72   | 31  | 0.10                  | 1.04    | 0.30    | 31  | 1.00                 | 6.02    | 1.67    | 31  |
| 7           | 2.19    | 47.19   | 21.49   | 31  | 0.10                  | 0.91    | 0.37    | 31  | 1.00                 | 6.97    | 1.79    | 31  |
| 8           | 6.01    | 46.67   | 24.00   | 31  | 0.10                  | 1.50    | 0.50    | 31  | 1.00                 | 14.82   | 2.42    | 31  |
| 9           | 6.41    | 47.25   | 30.48   | 31  | 0.10                  | 1.36    | 0.47    | 31  | 1.00                 | 18.38   | 2.59    | 31  |
| 10          | 14.27   | 49.93   | 36.19   | 31  | 0.10                  | 1.29    | 0.33    | 31  | 1.00                 | 13.95   | 2.90    | 31  |
| 11          | 20.75   | 52.28   | 41.76   | 31  | 0.10                  | 0.50    | 0.25    | 31  | 1.00                 | 9.69    | 1.68    | 30  |
| 12          | 19.86   | 55.00   | 44.55   | 31  | 0.10                  | 0.35    | 0.22    | 30  | 1.00                 | 7.07    | 1.86    | 30  |
| 13          | 22.17   | 55.19   | 46.00   | 30  | 0.10                  | 0.33    | 0.19    | 31  | 1.00                 | 9.38    | 1.70    | 30  |
| 14          | 24.86   | 59.45   | 46.73   | 31  | 0.10                  | 0.38    | 0.19    | 31  | 1.00                 | 4.68    | 1.33    | 30  |
| 15          | 25.59   | 59.42   | 47.51   | 30  | 0.10                  | 0.33    | 0.18    | 30  | 1.00                 | 4.79    | 1.28    | 31  |
| 16          | 26.62   | 59.49   | 47.74   | 30  | 0.10                  | 0.35    | 0.17    | 30  | 1.00                 | 1.00    | 1.00    | 31  |
| 17          | 29.55   | 57.81   | 46.81   | 31  | 0.10                  | 0.31    | 0.18    | 31  | 1.00                 | 1.00    | 1.00    | 31  |
| 18          | 10.79   | 57.14   | 42.87   | 31  | 0.10                  | 1.09    | 0.23    | 31  | 1.00                 | 3.95    | 1.13    | 31  |
| 19          | 2.02    | 54.22   | 36.71   | 31  | 0.10                  | 1.27    | 0.28    | 31  | 1.00                 | 7.52    | 1.38    | 31  |
| 20          | 1.00    | 45.03   | 32.13   | 31  | 0.10                  | 1.13    | 0.30    | 31  | 1.00                 | 6.91    | 1.37    | 31  |
| 21          | 1.00    | 50.02   | 29.82   | 31  | 0.10                  | 0.93    | 0.32    | 31  | 1.00                 | 3.59    | 1.18    | 31  |
| 22          | 1.00    | 49.07   | 28.80   | 31  | 0.10                  | 0.87    | 0.34    | 31  | 1.00                 | 6.47    | 1.40    | 31  |
| 23          | 1.00    | 44.96   | 24.45   | 31  | 0.10                  | 0.84    | 0.39    | 31  | 1.00                 | 2.99    | 1.14    | 31  |
| 24          | 1.00    | 48.70   | 21.86   | 31  | 0.10                  | 1.15    | 0.43    | 31  | 1.00                 | 5.78    | 1.46    | 31  |
|             | 1.00    | 59.49   | 33.28   | 741 | 0.10                  | 1.50    | 0.31    | 741 | 1.00                 | 18.38   | 1.56    | 740 |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: RMA(COMPOSITE)

Period: 3/ 1/91 thru 3/31/91

Month and year of record: MARCH, 91

| NITRIC OXIDE (PPB) |         |         |         |     | NITROGEN DIOXIDE (PPB) |         |         |     | NITROGEN OXIDES (PPB) |         |         |     |
|--------------------|---------|---------|---------|-----|------------------------|---------|---------|-----|-----------------------|---------|---------|-----|
| HR                 | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM                | MAXIMUM | AVERAGE | OBS | MINIMUM               | MAXIMUM | AVERAGE | OBS |
| 1                  | 1.00    | 41.04   | 5.57    | 31  | 1.00                   | 46.03   | 17.71   | 31  | 2.18                  | 87.80   | 23.71   | 31  |
| 2                  | 1.00    | 39.68   | 5.15    | 31  | 1.00                   | 48.72   | 15.36   | 31  | 2.05                  | 84.30   | 20.91   | 31  |
| 3                  | 1.00    | 46.68   | 4.45    | 31  | 1.00                   | 44.68   | 13.78   | 31  | 1.00                  | 87.00   | 18.63   | 31  |
| 4                  | 1.00    | 38.89   | 3.57    | 31  | 1.00                   | 39.50   | 13.41   | 31  | 1.00                  | 73.60   | 17.28   | 31  |
| 5                  | 1.00    | 38.37   | 2.75    | 31  | 1.00                   | 42.48   | 13.04   | 31  | 1.00                  | 76.40   | 16.27   | 31  |
| 6                  | 1.00    | 40.00   | 3.63    | 31  | 1.00                   | 48.73   | 15.20   | 31  | 1.00                  | 79.50   | 19.11   | 31  |
| 7                  | 1.00    | 48.35   | 5.98    | 31  | 2.14                   | 44.69   | 17.65   | 31  | 2.51                  | 90.20   | 24.09   | 31  |
| 8                  | 1.00    | 67.45   | 11.37   | 31  | 1.00                   | 43.31   | 17.76   | 31  | 2.24                  | 109.40  | 29.89   | 31  |
| 9                  | 1.00    | 50.29   | 9.84    | 31  | 1.00                   | 46.43   | 15.37   | 31  | 1.00                  | 97.40   | 26.03   | 31  |
| 10                 | 1.00    | 37.37   | 6.35    | 31  | 1.00                   | 43.07   | 10.98   | 31  | 1.00                  | 81.10   | 18.17   | 31  |
| 11                 | 1.00    | 10.98   | 4.27    | 30  | 1.00                   | 19.90   | 7.10    | 30  | 1.00                  | 31.77   | 12.28   | 30  |
| 12                 | 1.00    | 9.09    | 3.98    | 29  | 1.00                   | 16.77   | 5.55    | 29  | 2.61                  | 25.22   | 10.53   | 29  |
| 13                 | 1.00    | 10.18   | 3.60    | 30  | 1.00                   | 16.79   | 4.41    | 30  | 2.21                  | 27.84   | 9.13    | 30  |
| 14                 | 1.00    | 7.57    | 3.32    | 30  | 1.00                   | 12.08   | 3.83    | 30  | 2.52                  | 18.01   | 8.11    | 30  |
| 15                 | 1.00    | 7.49    | 3.14    | 30  | 1.00                   | 11.23   | 3.33    | 30  | 2.67                  | 16.71   | 7.48    | 30  |
| 16                 | 1.00    | 6.20    | 2.77    | 31  | 1.00                   | 9.47    | 2.79    | 31  | 2.65                  | 13.01   | 6.70    | 31  |
| 17                 | 1.00    | 6.21    | 2.56    | 31  | 1.00                   | 8.75    | 2.91    | 31  | 2.60                  | 11.59   | 6.59    | 31  |
| 18                 | 1.00    | 11.50   | 2.63    | 31  | 1.00                   | 32.35   | 5.25    | 31  | 2.32                  | 44.59   | 8.81    | 31  |
| 19                 | 1.00    | 9.27    | 2.45    | 31  | 1.00                   | 44.56   | 8.00    | 31  | 2.48                  | 54.63   | 11.05   | 31  |
| 20                 | 1.00    | 8.78    | 2.43    | 31  | 1.00                   | 45.98   | 10.19   | 31  | 2.26                  | 53.86   | 13.24   | 31  |
| 21                 | 1.00    | 8.05    | 2.33    | 31  | 2.11                   | 42.18   | 11.87   | 31  | 1.00                  | 51.01   | 14.73   | 31  |
| 22                 | 1.00    | 17.60   | 2.50    | 31  | 1.00                   | 41.34   | 12.96   | 31  | 1.00                  | 54.57   | 15.99   | 31  |
| 23                 | 1.00    | 15.15   | 2.72    | 31  | 2.16                   | 43.90   | 17.37   | 31  | 1.00                  | 55.78   | 20.57   | 31  |
| 24                 | 1.00    | 42.01   | 3.84    | 31  | 1.00                   | 55.73   | 20.09   | 31  | 1.00                  | 98.40   | 24.53   | 31  |
|                    | 1.00    | 67.45   | 4.22    | 738 | 1.00                   | 55.73   | 11.08   | 738 | 1.00                  | 109.40  | 15.99   | 738 |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: RMA(COMPOSITE)

Period: 4/ 1/91 thru 4/30/91

Month and year of record: APRIL, 91

| OZONE (PPB) |         |         |         |     | CARBON MONOXIDE (PPM) |         |         |     | SULFUR DIOXIDE (PPB) |         |         |     |
|-------------|---------|---------|---------|-----|-----------------------|---------|---------|-----|----------------------|---------|---------|-----|
| HR          | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM               | MAXIMUM | AVERAGE | OBS | MINIMUM              | MAXIMUM | AVERAGE | OBS |
| 1           | 6.75    | 48.84   | 30.37   | 30  | 0.23                  | 0.62    | 0.36    | 30  | 1.00                 | 3.05    | 1.11    | 30  |
| 2           | 9.13    | 50.75   | 28.86   | 30  | 0.28                  | 0.75    | 0.37    | 30  | 1.00                 | 13.49   | 1.42    | 30  |
| 3           | 9.30    | 54.93   | 27.99   | 30  | 0.25                  | 0.50    | 0.35    | 30  | 1.00                 | 14.13   | 1.93    | 30  |
| 4           | 2.41    | 53.90   | 26.22   | 30  | 0.23                  | 0.56    | 0.35    | 30  | 1.00                 | 14.55   | 1.79    | 30  |
| 5           | 1.00    | 54.57   | 23.83   | 30  | 0.25                  | 0.65    | 0.37    | 30  | 1.00                 | 4.51    | 1.17    | 30  |
| 6           | 1.00    | 48.91   | 21.83   | 30  | 0.26                  | 0.85    | 0.41    | 30  | 1.00                 | 5.99    | 1.32    | 30  |
| 7           | 4.35    | 48.75   | 22.38   | 30  | 0.26                  | 1.51    | 0.57    | 30  | 1.00                 | 4.78    | 1.44    | 30  |
| 8           | 7.94    | 51.52   | 27.87   | 30  | 0.25                  | 1.97    | 0.59    | 30  | 1.00                 | 14.19   | 1.97    | 29  |
| 9           | 11.97   | 52.58   | 33.63   | 30  | 0.25                  | 1.50    | 0.52    | 30  | 1.00                 | 11.57   | 1.75    | 28  |
| 10          | 24.45   | 53.37   | 40.45   | 29  | 0.25                  | 1.53    | 0.41    | 29  | 1.00                 | 4.56    | 1.40    | 29  |
| 11          | 30.46   | 58.99   | 45.87   | 29  | 0.25                  | 0.45    | 0.32    | 29  | 1.00                 | 5.55    | 1.34    | 29  |
| 12          | 34.18   | 64.03   | 49.49   | 30  | 0.22                  | 0.44    | 0.30    | 30  | 1.00                 | 1.00    | 1.00    | 29  |
| 13          | 37.06   | 63.22   | 51.40   | 30  | 0.10                  | 0.43    | 0.29    | 30  | 1.00                 | 2.06    | 1.04    | 29  |
| 14          | 34.72   | 66.03   | 52.49   | 30  | 0.10                  | 0.54    | 0.29    | 30  | 1.00                 | 3.13    | 1.08    | 28  |
| 15          | 32.48   | 68.08   | 53.11   | 29  | 0.20                  | 0.55    | 0.29    | 29  | 1.00                 | 2.64    | 1.06    | 29  |
| 16          | 30.76   | 68.45   | 52.61   | 29  | 0.22                  | 0.57    | 0.30    | 29  | 1.00                 | 3.63    | 1.09    | 29  |
| 17          | 28.50   | 69.63   | 52.15   | 30  | 0.23                  | 0.56    | 0.30    | 30  | 1.00                 | 5.13    | 1.23    | 30  |
| 18          | 26.60   | 65.89   | 48.42   | 30  | 0.23                  | 0.56    | 0.31    | 30  | 1.00                 | 4.73    | 1.12    | 30  |
| 19          | 26.75   | 59.95   | 42.86   | 30  | 0.24                  | 0.66    | 0.35    | 30  | 1.00                 | 4.49    | 1.12    | 30  |
| 20          | 16.26   | 50.01   | 36.01   | 30  | 0.23                  | 0.79    | 0.39    | 30  | 1.00                 | 11.86   | 1.62    | 30  |
| 21          | 8.13    | 49.26   | 32.99   | 30  | 0.23                  | 0.94    | 0.41    | 30  | 1.00                 | 2.85    | 1.06    | 30  |
| 22          | 5.48    | 55.08   | 31.22   | 30  | 0.24                  | 0.93    | 0.42    | 30  | 1.00                 | 12.10   | 1.71    | 30  |
| 23          | 3.11    | 52.19   | 28.40   | 30  | 0.23                  | 1.11    | 0.45    | 30  | 1.00                 | 4.12    | 1.21    | 30  |
| 24          | 4.99    | 49.91   | 28.60   | 30  | 0.24                  | 0.92    | 0.41    | 30  | 1.00                 | 2.39    | 1.05    | 30  |
| 1.00        | 69.63   | 37.04   | 716     |     | 0.10                  | 1.97    | 0.38    | 716 | 1.00                 | 14.55   | 1.33    | 709 |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: RMA(COMPOSITE)

Period: 4/ 1/91 thru 4/30/91

Month and year of record: APRIL, 91

| NITRIC OXIDE (PPB) |         |         |         |     | NITROGEN DIOXIDE (PPB) |         |         |     | NITROGEN OXIDES (PPB) |         |         |     |
|--------------------|---------|---------|---------|-----|------------------------|---------|---------|-----|-----------------------|---------|---------|-----|
| HR                 | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM                | MAXIMUM | AVERAGE | OBS | MINIMUM               | MAXIMUM | AVERAGE | OBS |
| 1                  | 1.00    | 5.56    | 2.39    | 30  | 1.00                   | 27.02   | 10.65   | 30  | 3.04                  | 33.02   | 13.86   | 30  |
| 2                  | 1.00    | 17.35   | 2.77    | 30  | 2.02                   | 46.35   | 11.63   | 30  | 3.09                  | 64.49   | 15.25   | 30  |
| 3                  | 1.00    | 8.01    | 2.46    | 30  | 2.02                   | 43.40   | 11.80   | 30  | 3.64                  | 52.21   | 15.14   | 30  |
| 4                  | 1.00    | 9.03    | 2.55    | 30  | 2.44                   | 50.07   | 12.90   | 30  | 4.70                  | 55.84   | 16.32   | 30  |
| 5                  | 1.00    | 14.91   | 2.98    | 30  | 3.50                   | 45.82   | 14.12   | 30  | 4.40                  | 48.02   | 17.86   | 30  |
| 6                  | 1.00    | 28.94   | 4.29    | 30  | 2.35                   | 44.66   | 16.13   | 30  | 3.37                  | 59.45   | 21.22   | 30  |
| 7                  | 1.00    | 65.49   | 10.53   | 30  | 4.72                   | 46.46   | 17.86   | 30  | 7.12                  | 112.60  | 29.35   | 30  |
| 8                  | 1.00    | 87.90   | 12.09   | 29  | 1.00                   | 57.85   | 16.94   | 29  | 3.22                  | 146.30  | 29.94   | 29  |
| 9                  | 1.00    | 47.54   | 8.97    | 28  | 1.00                   | 41.43   | 13.61   | 28  | 3.26                  | 89.70   | 23.58   | 28  |
| 10                 | 1.00    | 36.00   | 5.89    | 28  | 1.00                   | 50.41   | 9.18    | 28  | 4.39                  | 87.10   | 16.10   | 28  |
| 11                 | 1.00    | 9.76    | 4.11    | 29  | 1.00                   | 14.50   | 5.87    | 29  | 4.26                  | 25.18   | 11.03   | 29  |
| 12                 | 1.00    | 6.12    | 3.79    | 29  | 1.00                   | 9.70    | 4.40    | 29  | 3.20                  | 16.53   | 9.16    | 29  |
| 13                 | 1.00    | 6.06    | 4.02    | 29  | 1.00                   | 8.77    | 4.01    | 29  | 3.93                  | 15.45   | 8.99    | 29  |
| 14                 | 1.00    | 5.79    | 3.99    | 28  | 1.00                   | 8.78    | 4.15    | 28  | 3.70                  | 15.55   | 9.12    | 28  |
| 15                 | 1.00    | 6.26    | 4.01    | 28  | 1.00                   | 9.65    | 3.80    | 28  | 3.90                  | 16.40   | 8.75    | 28  |
| 16                 | 1.00    | 6.41    | 4.33    | 29  | 1.00                   | 11.23   | 4.15    | 29  | 3.40                  | 16.78   | 9.46    | 29  |
| 17                 | 1.00    | 6.59    | 4.16    | 29  | 1.00                   | 13.50   | 4.42    | 29  | 3.51                  | 21.01   | 9.57    | 29  |
| 18                 | 1.00    | 5.43    | 3.71    | 29  | 1.00                   | 16.08   | 5.05    | 29  | 4.72                  | 22.43   | 9.80    | 29  |
| 19                 | 1.00    | 5.09    | 3.31    | 29  | 2.06                   | 18.14   | 7.55    | 29  | 4.03                  | 23.28   | 11.73   | 29  |
| 20                 | 1.00    | 7.39    | 3.37    | 29  | 1.00                   | 43.05   | 11.52   | 29  | 3.61                  | 47.91   | 15.68   | 29  |
| 21                 | 1.00    | 6.20    | 3.19    | 29  | 1.00                   | 33.64   | 11.70   | 29  | 3.06                  | 39.61   | 15.66   | 29  |
| 22                 | 1.00    | 6.38    | 2.95    | 29  | 1.00                   | 37.31   | 12.49   | 29  | 2.82                  | 42.46   | 16.28   | 29  |
| 23                 | 1.00    | 14.53   | 3.35    | 29  | 1.00                   | 51.99   | 14.20   | 29  | 2.15                  | 67.28   | 18.36   | 29  |
| 24                 | 1.00    | 6.63    | 2.59    | 29  | 1.00                   | 46.03   | 12.78   | 29  | 2.01                  | 53.39   | 16.23   | 29  |
|                    | 1.00    | 87.90   | 4.41    | 699 |                        | 57.85   | 10.04   | 699 |                       | 146.30  | 15.35   | 699 |



WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: RMA(COMPOSITE)

Period: 5/ 1/91 thru 5/31/91

Month and year of record: MAY, 91

| OZONE (PPB) |         |         |         |     | CARBON MONOXIDE (PPM) |         |         |     | SULFUR DIOXIDE (PPB) |         |         |     |
|-------------|---------|---------|---------|-----|-----------------------|---------|---------|-----|----------------------|---------|---------|-----|
| HR          | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM               | MAXIMUM | AVERAGE | OBS | MINIMUM              | MAXIMUM | AVERAGE | OBS |
| 1           | 1.00    | 45.67   | 29.21   | 30  | 0.10                  | 1.12    | 0.27    | 30  | 1.00                 | 2.59    | 1.10    | 30  |
| 2           | 2.09    | 47.63   | 27.25   | 30  | 0.10                  | 1.01    | 0.28    | 30  | 1.00                 | 2.69    | 1.10    | 30  |
| 3           | 1.00    | 48.96   | 26.91   | 30  | 0.10                  | 1.10    | 0.25    | 30  | 1.00                 | 7.27    | 1.26    | 30  |
| 4           | 3.46    | 54.48   | 27.29   | 30  | 0.10                  | 0.75    | 0.21    | 30  | 1.00                 | 7.61    | 1.34    | 30  |
| 5           | 4.86    | 52.69   | 25.57   | 31  | 0.10                  | 0.54    | 0.21    | 31  | 1.00                 | 10.35   | 1.37    | 31  |
| 6           | 3.74    | 47.34   | 23.36   | 31  | 0.10                  | 0.69    | 0.31    | 31  | 1.00                 | 7.36    | 1.42    | 31  |
| 7           | 7.85    | 49.56   | 26.63   | 31  | 0.10                  | 1.03    | 0.40    | 31  | 1.00                 | 16.21   | 2.04    | 31  |
| 8           | 8.41    | 61.16   | 33.06   | 30  | 0.10                  | 1.03    | 0.39    | 31  | 1.00                 | 23.85   | 2.45    | 31  |
| 9           | 16.99   | 55.12   | 37.41   | 30  | 0.10                  | 1.01    | 0.33    | 31  | 1.00                 | 9.88    | 2.22    | 30  |
| 10          | 16.65   | 69.92   | 44.39   | 29  | 0.10                  | 0.72    | 0.24    | 29  | 1.00                 | 9.58    | 2.39    | 28  |
| 11          | 21.52   | 72.00   | 49.86   | 29  | 0.10                  | 0.52    | 0.18    | 28  | 1.00                 | 4.60    | 1.50    | 29  |
| 12          | 29.80   | 73.80   | 53.88   | 28  | 0.10                  | 0.48    | 0.14    | 29  | 1.00                 | 3.63    | 1.14    | 31  |
| 13          | 39.34   | 73.80   | 56.57   | 28  | 0.10                  | 0.26    | 0.13    | 29  | 1.00                 | 2.09    | 1.04    | 29  |
| 14          | 30.69   | 74.30   | 56.82   | 29  | 0.10                  | 0.36    | 0.14    | 29  | 1.00                 | 4.77    | 1.13    | 29  |
| 15          | 39.46   | 76.20   | 56.83   | 29  | 0.10                  | 0.36    | 0.14    | 30  | 1.00                 | 5.12    | 1.13    | 31  |
| 16          | 37.45   | 76.20   | 56.48   | 29  | 0.10                  | 0.36    | 0.15    | 31  | 1.00                 | 14.49   | 1.71    | 31  |
| 17          | 30.62   | 75.40   | 55.00   | 31  | 0.10                  | 0.40    | 0.15    | 31  | 1.00                 | 1.00    | 1.00    | 31  |
| 18          | 30.59   | 68.81   | 51.42   | 31  | 0.10                  | 0.55    | 0.15    | 31  | 1.00                 | 2.17    | 1.04    | 31  |
| 19          | 20.28   | 60.83   | 44.43   | 30  | 0.10                  | 1.08    | 0.20    | 30  | 1.00                 | 4.22    | 1.26    | 30  |
| 20          | 17.02   | 54.74   | 39.53   | 30  | 0.10                  | 1.03    | 0.22    | 30  | 1.00                 | 5.40    | 1.20    | 30  |
| 21          | 15.30   | 51.68   | 36.83   | 30  | 0.10                  | 1.04    | 0.24    | 30  | 1.00                 | 1.00    | 1.00    | 30  |
| 22          | 14.90   | 49.92   | 34.89   | 30  | 0.10                  | 0.89    | 0.25    | 30  | 1.00                 | 1.00    | 1.00    | 30  |
| 23          | 14.51   | 50.62   | 32.89   | 30  | 0.10                  | 0.69    | 0.26    | 30  | 1.00                 | 4.20    | 1.11    | 30  |
| 24          | 2.37    | 49.87   | 29.62   | 30  | 0.10                  | 1.50    | 0.29    | 30  | 1.00                 | 6.38    | 1.22    | 30  |
|             | 1.00    | 76.20   | 39.84   | 716 | 0.10                  | 1.50    | 0.23    | 722 | 1.00                 | 23.85   | 1.38    | 724 |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: RMA(COMPOSITE)

Period: 5/ 1/91 thru 5/31/91

Month and year of record: MAY, 91

| NITRIC OXIDE (PPB) |         |         |         |     | NITROGEN DIOXIDE (PPB) |         |         |     | NITROGEN OXIDES (PPB) |         |         |     |
|--------------------|---------|---------|---------|-----|------------------------|---------|---------|-----|-----------------------|---------|---------|-----|
| HR                 | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM                | MAXIMUM | AVERAGE | OBS | MINIMUM               | MAXIMUM | AVERAGE | OBS |
| 1                  | 1.00    | 3.81    | 1.16    | 29  | 1.00                   | 43.21   | 10.91   | 29  | 1.00                  | 46.97   | 11.91   | 29  |
| 2                  | 1.00    | 4.75    | 1.29    | 29  | 1.00                   | 43.48   | 11.46   | 29  | 1.00                  | 49.15   | 12.67   | 29  |
| 3                  | 1.00    | 7.02    | 1.33    | 29  | 2.26                   | 36.24   | 10.46   | 29  | 1.00                  | 44.12   | 11.60   | 29  |
| 4                  | 1.00    | 2.39    | 1.05    | 29  | 2.46                   | 33.33   | 9.73    | 29  | 2.61                  | 35.95   | 10.65   | 29  |
| 5                  | 1.00    | 2.96    | 1.07    | 30  | 2.10                   | 31.19   | 10.29   | 30  | 1.00                  | 32.50   | 11.40   | 30  |
| 6                  | 1.00    | 19.92   | 3.22    | 30  | 1.00                   | 32.44   | 12.88   | 30  | 1.00                  | 53.27   | 16.54   | 30  |
| 7                  | 1.00    | 30.78   | 6.13    | 30  | 1.00                   | 37.82   | 13.68   | 30  | 1.00                  | 63.70   | 20.41   | 30  |
| 8                  | 1.00    | 51.31   | 6.85    | 30  | 1.00                   | 43.51   | 13.08   | 30  | 1.00                  | 95.70   | 20.54   | 30  |
| 9                  | 1.00    | 16.95   | 5.41    | 27  | 2.22                   | 43.06   | 13.09   | 27  | 2.54                  | 60.98   | 19.29   | 27  |
| 10                 | 1.00    | 13.91   | 3.71    | 25  | 2.25                   | 35.38   | 10.35   | 25  | 2.15                  | 46.55   | 14.75   | 25  |
| 11                 | 1.00    | 11.86   | 1.92    | 27  | 1.00                   | 21.79   | 6.00    | 27  | 1.00                  | 34.63   | 8.13    | 27  |
| 12                 | 1.00    | 7.39    | 1.32    | 28  | 1.00                   | 20.19   | 4.00    | 28  | 1.00                  | 28.51   | 5.36    | 28  |
| 13                 | 1.00    | 2.13    | 1.04    | 27  | 1.00                   | 9.21    | 3.32    | 27  | 1.00                  | 11.92   | 4.63    | 27  |
| 14                 | 1.00    | 3.39    | 1.13    | 28  | 1.00                   | 17.14   | 3.38    | 28  | 1.00                  | 17.58   | 5.03    | 28  |
| 15                 | 1.00    | 5.20    | 1.25    | 30  | 1.00                   | 15.93   | 3.63    | 30  | 1.00                  | 17.82   | 5.45    | 30  |
| 16                 | 1.00    | 6.84    | 1.57    | 31  | 1.00                   | 20.25   | 4.34    | 31  | 1.00                  | 28.00   | 6.26    | 31  |
| 17                 | 1.00    | 3.27    | 1.07    | 31  | 1.00                   | 14.28   | 3.75    | 31  | 1.00                  | 17.02   | 5.32    | 31  |
| 18                 | 1.00    | 2.37    | 1.04    | 31  | 1.00                   | 23.45   | 4.40    | 31  | 1.00                  | 25.88   | 5.96    | 31  |
| 19                 | 1.00    | 2.71    | 1.06    | 30  | 1.00                   | 41.33   | 6.92    | 30  | 1.00                  | 45.01   | 8.25    | 30  |
| 20                 | 1.00    | 1.00    | 1.00    | 30  | 2.00                   | 37.73   | 8.11    | 30  | 2.43                  | 39.79   | 9.15    | 30  |
| 21                 | 1.00    | 1.00    | 1.00    | 30  | 2.65                   | 32.07   | 7.91    | 30  | 2.10                  | 33.57   | 9.02    | 30  |
| 22                 | 1.00    | 1.00    | 1.00    | 30  | 1.00                   | 37.65   | 8.49    | 30  | 1.00                  | 39.31   | 9.55    | 30  |
| 23                 | 1.00    | 2.99    | 1.07    | 30  | 2.14                   | 37.74   | 10.14   | 30  | 1.00                  | 41.65   | 11.21   | 30  |
| 24                 | 1.00    | 27.41   | 1.93    | 30  | 1.00                   | 58.70   | 12.12   | 30  | 1.00                  | 87.00   | 14.12   | 30  |
|                    | 1.00    | 51.31   | 2.03    | 701 |                        | 58.70   | 8.43    | 701 |                       | 95.70   | 10.72   | 701 |

## WOODWARD-CLYDE CONSULTANTS

## AEROMETRIC DATA SYSTEM

## COMPOSITE DAY ANALYSIS

Selected Station: RMA(COMPOSITE)

Period: 6/ 1/91 thru 6/30/91

Month and year of record: JUNE, 91

| OZONE (PPB) |         |         |         |     | CARBON MONOXIDE (PPM) |         |         |     | SULFUR DIOXIDE (PPB) |         |         |     |
|-------------|---------|---------|---------|-----|-----------------------|---------|---------|-----|----------------------|---------|---------|-----|
| HR          | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM               | MAXIMUM | AVERAGE | OBS | MINIMUM              | MAXIMUM | AVERAGE | OBS |
| 1           | 1.00    | 47.69   | 23.34   | 16  | 0.10                  | 1.56    | 0.31    | 30  | 1.00                 | 12.58   | 1.48    | 30  |
| 2           | 2.12    | 45.65   | 22.46   | 16  | 0.10                  | 0.89    | 0.28    | 30  | 1.00                 | 7.84    | 1.28    | 30  |
| 3           | 5.91    | 42.75   | 22.02   | 16  | 0.10                  | 0.91    | 0.25    | 30  | 1.00                 | 7.01    | 1.25    | 30  |
| 4           | 4.91    | 48.21   | 22.15   | 16  | 0.10                  | 0.87    | 0.24    | 30  | 1.00                 | 2.77    | 1.10    | 30  |
| 5           | 1.00    | 39.99   | 20.22   | 16  | 0.10                  | 0.60    | 0.22    | 30  | 1.00                 | 3.12    | 1.16    | 30  |
| 6           | 1.00    | 41.15   | 19.61   | 16  | 0.10                  | 0.70    | 0.31    | 30  | 1.00                 | 1.00    | 1.00    | 30  |
| 7           | 7.55    | 38.01   | 21.71   | 16  | 0.10                  | 0.85    | 0.43    | 30  | 1.00                 | 11.42   | 2.39    | 30  |
| 8           | 10.45   | 68.16   | 32.18   | 16  | 0.10                  | 1.51    | 0.41    | 30  | 1.00                 | 13.69   | 3.19    | 30  |
| 9           | 22.16   | 61.44   | 40.71   | 16  | 0.10                  | 0.75    | 0.29    | 30  | 1.00                 | 21.19   | 4.32    | 29  |
| 10          | 23.89   | 67.69   | 47.97   | 16  | 0.10                  | 0.71    | 0.21    | 28  | 1.00                 | 26.85   | 3.18    | 29  |
| 11          | 34.25   | 68.00   | 54.32   | 16  | 0.10                  | 0.57    | 0.16    | 29  | 1.00                 | 10.19   | 2.30    | 29  |
| 12          | 41.85   | 67.98   | 59.04   | 16  | 0.10                  | 0.76    | 0.15    | 29  | 1.00                 | 29.13   | 2.56    | 29  |
| 13          | 47.78   | 68.16   | 59.87   | 16  | 0.10                  | 0.95    | 0.13    | 29  | 1.00                 | 23.54   | 1.90    | 29  |
| 14          | 50.82   | 71.50   | 59.36   | 15  | 0.10                  | 1.24    | 0.14    | 29  | 1.00                 | 17.62   | 1.67    | 28  |
| 15          | 46.35   | 74.30   | 57.83   | 14  | 0.10                  | 0.83    | 0.13    | 29  | 1.00                 | 5.53    | 1.16    | 28  |
| 16          | 40.20   | 75.00   | 56.50   | 15  | 0.10                  | 0.23    | 0.11    | 29  | 1.00                 | 2.62    | 1.10    | 29  |
| 17          | 36.00   | 71.80   | 54.49   | 16  | 0.10                  | 0.32    | 0.13    | 30  | 1.00                 | 2.89    | 1.06    | 30  |
| 18          | 33.79   | 72.70   | 54.33   | 17  | 0.10                  | 0.56    | 0.17    | 30  | 1.00                 | 2.10    | 1.04    | 30  |
| 19          | 29.78   | 74.70   | 51.46   | 17  | 0.10                  | 0.99    | 0.20    | 30  | 1.00                 | 10.00   | 1.49    | 30  |
| 20          | 21.86   | 65.13   | 46.12   | 17  | 0.10                  | 0.48    | 0.18    | 30  | 1.00                 | 7.15    | 1.30    | 30  |
| 21          | 11.82   | 61.57   | 39.92   | 17  | 0.10                  | 0.67    | 0.22    | 30  | 1.00                 | 13.10   | 1.49    | 30  |
| 22          | 4.34    | 59.82   | 34.07   | 17  | 0.10                  | 1.18    | 0.26    | 30  | 1.00                 | 2.88    | 1.10    | 30  |
| 23          | 1.00    | 47.79   | 27.66   | 17  | 0.10                  | 1.01    | 0.31    | 30  | 1.00                 | 4.96    | 1.34    | 30  |
| 24          | 1.00    | 42.05   | 23.01   | 17  | 0.10                  | 1.55    | 0.36    | 30  | 1.00                 | 6.46    | 1.31    | 30  |
|             | 1.00    | 75.00   | 39.60   | 387 | 0.10                  | 1.56    | 0.23    | 712 | 1.00                 | 29.13   | 1.72    | 710 |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: RMA(COMPOSITE)

Period: 6/ 1/91 thru 6/30/91

Month and year of record: JUNE, 91

| NITRIC OXIDE (PPB) |         |         |         |     | NITROGEN DIOXIDE (PPB) |         |         |     | NITROGEN OXIDES (PPB) |         |         |     |
|--------------------|---------|---------|---------|-----|------------------------|---------|---------|-----|-----------------------|---------|---------|-----|
| HR                 | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM                | MAXIMUM | AVERAGE | OBS | MINIMUM               | MAXIMUM | AVERAGE | OBS |
| 1                  | 1.00    | 18.40   | 2.06    | 30  | 3.01                   | 53.39   | 16.43   | 30  | 4.64                  | 65.57   | 19.01   | 30  |
| 2                  | 1.00    | 10.46   | 1.50    | 30  | 2.56                   | 48.22   | 14.70   | 30  | 3.95                  | 50.30   | 16.73   | 30  |
| 3                  | 1.00    | 11.12   | 1.42    | 30  | 2.75                   | 47.69   | 14.18   | 30  | 3.87                  | 52.07   | 16.16   | 30  |
| 4                  | 1.00    | 10.01   | 1.36    | 30  | 4.77                   | 35.85   | 14.06   | 30  | 5.98                  | 46.82   | 15.91   | 30  |
| 5                  | 1.00    | 9.41    | 1.83    | 30  | 3.53                   | 32.20   | 14.69   | 30  | 4.41                  | 39.90   | 17.24   | 30  |
| 6                  | 1.00    | 11.90   | 4.53    | 30  | 2.67                   | 24.95   | 15.65   | 30  | 3.68                  | 37.59   | 21.13   | 30  |
| 7                  | 1.00    | 28.74   | 8.44    | 30  | 2.74                   | 39.16   | 18.30   | 30  | 3.80                  | 68.84   | 27.73   | 30  |
| 8                  | 1.00    | 46.96   | 7.82    | 30  | 2.85                   | 52.30   | 17.06   | 30  | 4.01                  | 100.20  | 25.85   | 30  |
| 9                  | 1.00    | 14.58   | 5.03    | 29  | 2.83                   | 31.37   | 14.00   | 29  | 4.45                  | 46.92   | 20.04   | 29  |
| 10                 | 1.00    | 22.99   | 3.40    | 29  | 2.72                   | 41.80   | 10.57   | 29  | 3.98                  | 65.79   | 14.96   | 29  |
| 11                 | 1.00    | 11.34   | 2.04    | 29  | 2.08                   | 31.27   | 7.93    | 29  | 2.97                  | 43.57   | 10.82   | 29  |
| 12                 | 1.00    | 21.91   | 1.90    | 29  | 1.00                   | 45.81   | 6.38    | 29  | 2.36                  | 68.68   | 8.98    | 29  |
| 13                 | 1.00    | 15.58   | 1.68    | 29  | 1.00                   | 54.30   | 5.20    | 29  | 1.00                  | 70.90   | 7.25    | 29  |
| 14                 | 1.00    | 15.26   | 1.90    | 28  | 1.00                   | 61.37   | 5.28    | 28  | 2.51                  | 77.50   | 7.67    | 28  |
| 15                 | 1.00    | 10.68   | 1.69    | 28  | 1.00                   | 30.75   | 4.58    | 28  | 2.50                  | 37.75   | 6.80    | 28  |
| 16                 | 1.00    | 9.98    | 1.49    | 29  | 1.00                   | 9.98    | 4.54    | 29  | 2.47                  | 16.60   | 6.61    | 29  |
| 17                 | 1.00    | 7.19    | 1.37    | 29  | 1.00                   | 16.01   | 5.13    | 29  | 2.82                  | 18.14   | 7.14    | 29  |
| 18                 | 1.00    | 2.93    | 1.34    | 30  | 1.00                   | 16.30   | 6.62    | 30  | 2.78                  | 20.22   | 8.62    | 30  |
| 19                 | 1.00    | 2.99    | 1.21    | 30  | 2.48                   | 33.51   | 8.36    | 30  | 2.85                  | 37.15   | 10.05   | 30  |
| 20                 | 1.00    | 1.00    | 1.00    | 30  | 2.89                   | 26.33   | 8.67    | 30  | 3.30                  | 26.58   | 9.92    | 30  |
| 21                 | 1.00    | 1.00    | 1.00    | 30  | 3.07                   | 41.65   | 11.80   | 30  | 4.76                  | 43.01   | 13.04   | 30  |
| 22                 | 1.00    | 1.00    | 1.00    | 30  | 2.94                   | 52.92   | 13.11   | 30  | 4.30                  | 54.58   | 14.38   | 30  |
| 23                 | 1.00    | 7.13    | 1.25    | 30  | 2.60                   | 47.35   | 16.11   | 30  | 4.08                  | 50.07   | 17.77   | 30  |
| 24                 | 1.00    | 14.94   | 2.05    | 30  | 2.74                   | 58.36   | 17.41   | 30  | 4.23                  | 67.57   | 19.94   | 30  |
|                    | 1.00    | 46.96   | 2.43    | 709 | 1.00                   | 61.37   | 11.28   | 709 | 1.00                  | 100.20  | 14.32   | 709 |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: RMA(COMPOSITE)

Period: 7/ 1/91 thru 7/31/91

Month and year of record: JULY, 91

| OZONE (PPB) |         |         |         |     | CARBON MONOXIDE (PPM) |         |         |     | SULFUR DIOXIDE (PPB) |         |         |     |
|-------------|---------|---------|---------|-----|-----------------------|---------|---------|-----|----------------------|---------|---------|-----|
| HR          | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM               | MAXIMUM | AVERAGE | OBS | MINIMUM              | MAXIMUM | AVERAGE | OBS |
| 1           | 7.07    | 44.16   | 23.42   | 30  | 0.10                  | 0.75    | 0.40    | 27  | 1.00                 | 2.86    | 1.20    | 31  |
| 2           | 1.00    | 42.94   | 21.64   | 30  | 0.10                  | 1.12    | 0.40    | 27  | 1.00                 | 6.13    | 1.24    | 31  |
| 3           | 1.00    | 38.71   | 20.53   | 30  | 0.10                  | 1.23    | 0.38    | 27  | 1.00                 | 4.62    | 1.20    | 31  |
| 4           | 3.42    | 38.19   | 20.31   | 30  | 0.10                  | 0.95    | 0.35    | 27  | 1.00                 | 2.64    | 1.21    | 31  |
| 5           | 1.00    | 40.27   | 18.29   | 30  | 0.10                  | 0.94    | 0.32    | 27  | 1.00                 | 3.86    | 1.24    | 31  |
| 6           | 2.00    | 38.58   | 16.87   | 30  | 0.10                  | 0.79    | 0.41    | 27  | 1.00                 | 4.88    | 1.35    | 31  |
| 7           | 3.13    | 40.34   | 18.58   | 30  | 0.10                  | 1.03    | 0.58    | 27  | 1.00                 | 9.90    | 2.64    | 31  |
| 8           | 5.34    | 41.52   | 26.65   | 30  | 0.10                  | 1.20    | 0.59    | 27  | 1.00                 | 42.26   | 6.64    | 30  |
| 9           | 18.64   | 50.62   | 36.21   | 30  | 0.10                  | 0.88    | 0.47    | 26  | 1.00                 | 35.75   | 8.35    | 30  |
| 10          | 29.35   | 65.38   | 46.57   | 28  | 0.14                  | 0.96    | 0.39    | 26  | 1.00                 | 35.65   | 6.67    | 30  |
| 11          | 37.69   | 78.90   | 55.77   | 29  | 0.10                  | 0.67    | 0.31    | 25  | 1.00                 | 13.13   | 2.91    | 30  |
| 12          | 38.80   | 88.20   | 60.69   | 28  | 0.10                  | 0.59    | 0.25    | 24  | 1.00                 | 8.20    | 1.38    | 28  |
| 13          | 39.67   | 97.60   | 62.42   | 28  | 0.10                  | 0.59    | 0.23    | 24  | 1.00                 | 8.25    | 1.51    | 30  |
| 14          | 39.58   | 93.60   | 61.14   | 27  | 0.10                  | 0.45    | 0.22    | 25  | 1.00                 | 5.31    | 1.27    | 31  |
| 15          | 41.84   | 98.70   | 59.89   | 27  | 0.10                  | 0.67    | 0.24    | 23  | 1.00                 | 4.93    | 1.16    | 31  |
| 16          | 27.04   | 91.30   | 56.92   | 26  | 0.10                  | 0.70    | 0.25    | 26  | 1.00                 | 9.98    | 1.35    | 31  |
| 17          | 37.66   | 72.60   | 55.73   | 29  | 0.10                  | 0.83    | 0.26    | 26  | 1.00                 | 6.56    | 1.49    | 31  |
| 18          | 32.42   | 69.80   | 52.48   | 29  | 0.10                  | 0.97    | 0.29    | 26  | 1.00                 | 23.89   | 1.95    | 31  |
| 19          | 13.09   | 66.51   | 46.60   | 29  | 0.10                  | 0.92    | 0.34    | 27  | 1.00                 | 9.26    | 1.43    | 31  |
| 20          | 7.05    | 62.90   | 40.83   | 30  | 0.10                  | 1.34    | 0.37    | 27  | 1.00                 | 7.04    | 1.30    | 31  |
| 21          | 1.00    | 58.24   | 32.57   | 30  | 0.10                  | 1.29    | 0.41    | 27  | 1.00                 | 10.50   | 1.83    | 31  |
| 22          | 1.00    | 59.63   | 28.73   | 30  | 0.10                  | 1.85    | 0.50    | 27  | 1.00                 | 8.82    | 1.40    | 31  |
| 23          | 1.00    | 45.07   | 24.13   | 30  | 0.18                  | 1.54    | 0.58    | 27  | 1.00                 | 5.63    | 1.61    | 31  |
| 24          | 1.00    | 44.69   | 24.11   | 30  | 0.20                  | 1.16    | 0.52    | 27  | 1.00                 | 8.90    | 1.35    | 31  |
|             | 1.00    | 98.70   | 37.96   | 700 | 0.10                  | 1.85    | 0.38    | 629 | 1.00                 | 42.26   | 2.24    | 736 |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: RMA(COMPOSITE)

Period: 7/ 1/91 thru 7/31/91

Month and year of record: JULY, 91

| NITRIC OXIDE (PPB) |         |         |         |     | NITROGEN DIOXIDE (PPB) |         |         |     | NITROGEN OXIDES (PPB) |         |         |     |
|--------------------|---------|---------|---------|-----|------------------------|---------|---------|-----|-----------------------|---------|---------|-----|
| HR                 | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM                | MAXIMUM | AVERAGE | OBS | MINIMUM               | MAXIMUM | AVERAGE | OBS |
| 1                  | 1.00    | 2.93    | 1.33    | 31  | 2.99                   | 34.56   | 17.00   | 31  | 3.24                  | 36.33   | 18.88   | 31  |
| 2                  | 1.00    | 13.23   | 1.82    | 31  | 2.97                   | 40.80   | 16.34   | 31  | 3.13                  | 53.77   | 18.82   | 31  |
| 3                  | 1.00    | 24.29   | 2.17    | 31  | 2.94                   | 40.85   | 15.14   | 31  | 3.53                  | 66.14   | 17.92   | 31  |
| 4                  | 1.00    | 7.68    | 1.59    | 31  | 3.31                   | 36.65   | 14.62   | 31  | 5.33                  | 41.18   | 16.81   | 31  |
| 5                  | 1.00    | 22.03   | 2.18    | 31  | 3.49                   | 36.26   | 15.49   | 31  | 5.78                  | 57.38   | 18.35   | 31  |
| 6                  | 1.00    | 32.15   | 5.88    | 31  | 3.19                   | 35.91   | 17.83   | 31  | 5.61                  | 69.02   | 24.75   | 31  |
| 7                  | 1.00    | 31.40   | 13.01   | 31  | 3.53                   | 44.33   | 22.85   | 31  | 6.18                  | 74.10   | 36.83   | 31  |
| 8                  | 1.00    | 45.20   | 12.92   | 30  | 2.42                   | 53.48   | 23.08   | 30  | 4.76                  | 99.60   | 36.97   | 30  |
| 9                  | 1.00    | 26.89   | 9.84    | 30  | 2.23                   | 49.60   | 21.03   | 30  | 4.43                  | 77.10   | 31.80   | 30  |
| 10                 | 1.00    | 16.66   | 5.50    | 28  | 2.74                   | 35.31   | 15.56   | 28  | 3.93                  | 52.96   | 22.01   | 28  |
| 11                 | 1.00    | 13.40   | 2.51    | 28  | 1.00                   | 29.50   | 9.56    | 28  | 2.37                  | 43.89   | 12.91   | 28  |
| 12                 | 1.00    | 7.60    | 1.60    | 29  | 1.00                   | 23.58   | 5.45    | 29  | 1.00                  | 32.14   | 7.58    | 29  |
| 13                 | 1.00    | 4.84    | 1.50    | 30  | 1.00                   | 18.56   | 4.68    | 30  | 1.00                  | 22.94   | 6.68    | 30  |
| 14                 | 1.00    | 5.75    | 1.59    | 31  | 1.00                   | 13.38   | 3.91    | 31  | 2.70                  | 16.85   | 6.18    | 31  |
| 15                 | 1.00    | 5.99    | 1.84    | 31  | 1.00                   | 13.92   | 4.53    | 31  | 2.61                  | 18.49   | 7.16    | 31  |
| 16                 | 1.00    | 16.27   | 2.57    | 31  | 1.00                   | 29.07   | 5.39    | 31  | 2.13                  | 40.41   | 8.68    | 31  |
| 17                 | 1.00    | 6.61    | 2.25    | 31  | 1.00                   | 24.64   | 5.98    | 31  | 2.28                  | 31.26   | 8.94    | 31  |
| 18                 | 1.00    | 8.09    | 2.19    | 31  | 1.00                   | 43.92   | 8.31    | 31  | 2.18                  | 49.50   | 11.24   | 31  |
| 19                 | 1.00    | 6.92    | 1.89    | 31  | 1.00                   | 42.21   | 9.77    | 31  | 2.52                  | 50.09   | 12.45   | 31  |
| 20                 | 1.00    | 6.94    | 1.55    | 31  | 2.33                   | 54.69   | 12.03   | 31  | 2.87                  | 62.46   | 14.24   | 31  |
| 21                 | 1.00    | 6.88    | 1.70    | 31  | 2.30                   | 59.66   | 16.27   | 31  | 3.87                  | 67.49   | 18.57   | 31  |
| 22                 | 1.00    | 24.43   | 2.78    | 31  | 2.02                   | 61.15   | 18.26   | 31  | 4.37                  | 86.50   | 21.58   | 31  |
| 23                 | 1.00    | 15.70   | 2.78    | 31  | 2.56                   | 49.66   | 20.84   | 31  | 4.91                  | 66.28   | 24.35   | 31  |
| 24                 | 1.00    | 7.40    | 2.01    | 31  | 3.94                   | 51.08   | 18.65   | 31  | 4.47                  | 56.90   | 21.45   | 31  |
| 1.00               | 45.20   | 3.54    | 733     |     | 1.00                   | 61.15   | 13.44   | 733 | 1.00                  | 99.60   | 17.71   | 733 |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: RMA(COMPOSITE)

Period: 8/ 1/91 thru 8/31/91

Month and year of record: AUGUST, 91

| OZONE (PPB) |         |         |         |     | CARBON MONOXIDE (PPM) |         |         |     | SULFUR DIOXIDE (PPB) |         |         |     |
|-------------|---------|---------|---------|-----|-----------------------|---------|---------|-----|----------------------|---------|---------|-----|
| HR          | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM               | MAXIMUM | AVERAGE | OBS | MINIMUM              | MAXIMUM | AVERAGE | OBS |
| 1           | 1.00    | 37.22   | 19.36   | 30  | 0.10                  | 0.97    | 0.47    | 30  | 1.00                 | 2.99    | 1.13    | 30  |
| 2           | 1.00    | 38.75   | 19.49   | 30  | 0.10                  | 0.98    | 0.42    | 30  | 1.00                 | 8.30    | 1.30    | 30  |
| 3           | 1.00    | 35.45   | 19.35   | 30  | 0.10                  | 0.94    | 0.41    | 30  | 1.00                 | 3.03    | 1.10    | 30  |
| 4           | 1.00    | 36.39   | 17.53   | 30  | 0.10                  | 0.84    | 0.38    | 30  | 1.00                 | 9.11    | 1.41    | 30  |
| 5           | 1.00    | 33.58   | 14.58   | 30  | 0.10                  | 0.82    | 0.37    | 30  | 1.00                 | 4.52    | 1.45    | 30  |
| 6           | 1.00    | 36.71   | 14.11   | 30  | 0.10                  | 1.00    | 0.45    | 30  | 1.00                 | 6.80    | 1.50    | 30  |
| 7           | 3.40    | 32.98   | 12.65   | 30  | 0.10                  | 1.37    | 0.70    | 30  | 1.00                 | 9.51    | 2.37    | 30  |
| 8           | 5.07    | 38.19   | 18.99   | 30  | 0.10                  | 1.70    | 0.83    | 30  | 1.00                 | 14.26   | 4.99    | 30  |
| 9           | 13.65   | 46.04   | 29.96   | 30  | 0.10                  | 1.66    | 0.66    | 30  | 1.00                 | 45.81   | 7.47    | 30  |
| 10          | 25.08   | 54.32   | 41.40   | 30  | 0.10                  | 1.13    | 0.46    | 29  | 1.00                 | 20.03   | 4.09    | 29  |
| 11          | 30.87   | 62.10   | 50.88   | 30  | 0.10                  | 0.48    | 0.32    | 27  | 1.00                 | 9.94    | 2.11    | 29  |
| 12          | 29.60   | 69.68   | 57.93   | 28  | 0.10                  | 0.51    | 0.27    | 28  | 1.00                 | 3.20    | 1.13    | 29  |
| 13          | 24.65   | 77.00   | 59.47   | 27  | 0.10                  | 0.40    | 0.24    | 29  | 1.00                 | 1.00    | 1.00    | 30  |
| 14          | 25.51   | 82.00   | 58.95   | 29  | 0.10                  | 0.76    | 0.25    | 29  | 1.00                 | 14.91   | 1.73    | 30  |
| 15          | 24.56   | 79.00   | 58.60   | 29  | 0.10                  | 0.75    | 0.26    | 29  | 1.00                 | 18.62   | 1.81    | 30  |
| 16          | 21.67   | 82.10   | 54.96   | 31  | 0.10                  | 0.91    | 0.30    | 30  | 1.00                 | 13.77   | 1.52    | 31  |
| 17          | 19.68   | 70.10   | 49.55   | 31  | 0.10                  | 1.28    | 0.34    | 31  | 1.00                 | 4.59    | 1.41    | 31  |
| 18          | 7.36    | 61.68   | 43.21   | 31  | 0.10                  | 0.94    | 0.38    | 31  | 1.00                 | 5.68    | 1.47    | 31  |
| 19          | 5.71    | 101.90  | 39.12   | 31  | 0.10                  | 1.08    | 0.40    | 31  | 1.00                 | 10.36   | 1.79    | 31  |
| 20          | 12.48   | 129.90  | 34.84   | 31  | 0.10                  | 1.15    | 0.39    | 31  | 1.00                 | 7.21    | 1.68    | 31  |
| 21          | 14.59   | 46.52   | 27.65   | 30  | 0.10                  | 0.79    | 0.41    | 30  | 1.00                 | 4.99    | 1.22    | 30  |
| 22          | 1.00    | 47.69   | 24.07   | 30  | 0.10                  | 1.66    | 0.49    | 30  | 1.00                 | 5.98    | 1.35    | 30  |
| 23          | 1.00    | 42.17   | 21.94   | 30  | 0.10                  | 1.73    | 0.53    | 30  | 1.00                 | 4.54    | 1.22    | 30  |
| 24          | 1.00    | 43.45   | 19.79   | 30  | 0.10                  | 1.31    | 0.50    | 30  | 1.00                 | 5.20    | 1.41    | 30  |
|             | 1.00    | 129.90  | 33.68   | 718 | 0.10                  | 1.73    | 0.43    | 715 | 1.00                 | 45.81   | 1.99    | 722 |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: RMA(COMPOSITE)

Period: 8/ 1/91 thru 8/31/91

Month and year of record: AUGUST, 91

| NITRIC OXIDE (PPB) |         |         |         |     | NITROGEN DIOXIDE (PPB) |         |         |     | NITROGEN OXIDES (PPB) |         |         |     |
|--------------------|---------|---------|---------|-----|------------------------|---------|---------|-----|-----------------------|---------|---------|-----|
| HR                 | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM                | MAXIMUM | AVERAGE | OBS | MINIMUM               | MAXIMUM | AVERAGE | OBS |
| 1                  | 1.00    | 10.32   | 3.36    | 30  | 7.70                   | 35.69   | 17.73   | 30  | 11.21                 | 45.75   | 22.01   | 30  |
| 2                  | 1.00    | 13.03   | 3.48    | 30  | 7.53                   | 32.90   | 15.81   | 30  | 9.79                  | 43.69   | 20.21   | 30  |
| 3                  | 1.00    | 16.97   | 3.80    | 30  | 5.33                   | 33.45   | 14.64   | 30  | 8.94                  | 48.22   | 19.32   | 30  |
| 4                  | 1.00    | 14.16   | 3.47    | 30  | 6.01                   | 37.89   | 15.46   | 30  | 9.14                  | 43.66   | 19.79   | 30  |
| 5                  | 1.00    | 20.97   | 3.95    | 30  | 4.15                   | 33.78   | 18.09   | 30  | 7.67                  | 52.48   | 22.90   | 30  |
| 6                  | 1.00    | 29.34   | 6.19    | 30  | 3.37                   | 33.77   | 18.53   | 30  | 6.18                  | 60.48   | 25.61   | 30  |
| 7                  | 2.12    | 62.09   | 18.17   | 30  | 2.75                   | 33.62   | 22.99   | 30  | 5.82                  | 96.00   | 42.14   | 30  |
| 8                  | 2.42    | 64.17   | 20.68   | 30  | 4.33                   | 45.40   | 26.16   | 30  | 7.66                  | 110.50  | 47.81   | 30  |
| 9                  | 2.15    | 48.47   | 13.51   | 27  | 2.84                   | 42.54   | 21.99   | 27  | 5.92                  | 92.10   | 36.46   | 27  |
| 10                 | 2.26    | 15.77   | 7.42    | 27  | 1.00                   | 36.63   | 15.57   | 27  | 5.20                  | 52.47   | 23.99   | 27  |
| 11                 | 2.38    | 10.95   | 4.45    | 30  | 1.00                   | 27.40   | 9.75    | 30  | 5.30                  | 39.34   | 15.22   | 30  |
| 12                 | 1.00    | 5.42    | 3.01    | 30  | 2.18                   | 15.88   | 5.93    | 30  | 5.58                  | 22.35   | 9.98    | 30  |
| 13                 | 1.00    | 5.36    | 2.72    | 30  | 1.00                   | 12.69   | 4.34    | 30  | 5.15                  | 17.48   | 8.12    | 30  |
| 14                 | 1.00    | 7.99    | 3.04    | 30  | 1.00                   | 41.14   | 5.23    | 30  | 4.26                  | 50.06   | 9.38    | 30  |
| 15                 | 1.00    | 13.65   | 3.28    | 30  | 1.00                   | 43.24   | 5.83    | 30  | 4.76                  | 57.84   | 10.28   | 30  |
| 16                 | 1.00    | 37.85   | 4.00    | 31  | 1.00                   | 42.37   | 6.91    | 31  | 5.21                  | 63.68   | 11.99   | 31  |
| 17                 | 1.00    | 12.27   | 3.46    | 31  | 1.00                   | 36.54   | 8.28    | 31  | 5.31                  | 49.81   | 12.80   | 31  |
| 18                 | 2.10    | 8.41    | 3.43    | 31  | 1.00                   | 34.22   | 9.93    | 31  | 5.64                  | 43.51   | 14.37   | 31  |
| 19                 | 2.23    | 9.82    | 3.38    | 31  | 1.00                   | 55.80   | 12.79   | 31  | 5.46                  | 60.64   | 17.20   | 31  |
| 20                 | 1.00    | 4.07    | 2.70    | 31  | 1.00                   | 46.54   | 14.08   | 31  | 3.14                  | 49.04   | 17.79   | 31  |
| 21                 | 2.11    | 3.73    | 2.88    | 30  | 2.64                   | 37.39   | 15.44   | 30  | 6.30                  | 42.06   | 19.31   | 30  |
| 22                 | 1.00    | 44.04   | 4.28    | 30  | 2.96                   | 56.97   | 17.99   | 30  | 6.49                  | 102.00  | 23.29   | 30  |
| 23                 | 1.00    | 26.44   | 3.91    | 30  | 4.74                   | 51.34   | 19.08   | 30  | 7.99                  | 78.70   | 23.95   | 30  |
| 24                 | 1.00    | 15.26   | 3.54    | 30  | 3.47                   | 45.55   | 19.05   | 30  | 6.79                  | 61.82   | 23.53   | 30  |
|                    | 1.00    | 64.17   | 5.50    | 719 | 1.00                   | 56.97   | 14.23   | 719 | 3.14                  | 110.50  | 20.73   | 719 |



WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: RMA(COMPOSITE)

Period: 9/ 1/91 thru 9/30/91

Month and year of record: SEPTEMBER, 91

| OZONE (PPB) |         |         |         |     | CARBON MONOXIDE (PPM) |         |         |     | SULFUR DIOXIDE (PPB) |         |         |     |
|-------------|---------|---------|---------|-----|-----------------------|---------|---------|-----|----------------------|---------|---------|-----|
| HR          | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM               | MAXIMUM | AVERAGE | OBS | MINIMUM              | MAXIMUM | AVERAGE | OBS |
| 1           | 1.00    | 45.56   | 18.64   | 30  | 0.10                  | 1.61    | 0.37    | 30  | 1.00                 | 7.54    | 1.65    | 30  |
| 2           | 1.00    | 46.49   | 18.00   | 30  | 0.10                  | 0.81    | 0.29    | 30  | 1.00                 | 8.32    | 1.65    | 30  |
| 3           | 1.00    | 44.42   | 16.23   | 30  | 0.10                  | 0.66    | 0.26    | 30  | 1.00                 | 12.14   | 1.86    | 30  |
| 4           | 1.00    | 42.10   | 16.21   | 30  | 0.10                  | 0.81    | 0.23    | 30  | 1.00                 | 5.30    | 1.48    | 30  |
| 5           | 1.00    | 36.73   | 14.83   | 30  | 0.10                  | 0.77    | 0.24    | 30  | 1.00                 | 5.31    | 1.47    | 30  |
| 6           | 1.00    | 30.68   | 12.24   | 30  | 0.10                  | 0.80    | 0.32    | 30  | 1.00                 | 5.69    | 1.49    | 30  |
| 7           | 1.00    | 28.22   | 11.57   | 30  | 0.10                  | 1.32    | 0.54    | 30  | 1.00                 | 7.67    | 2.08    | 30  |
| 8           | 4.40    | 35.66   | 16.58   | 29  | 0.10                  | 2.25    | 0.77    | 29  | 1.00                 | 22.47   | 5.03    | 29  |
| 9           | 10.44   | 39.02   | 25.54   | 29  | 0.10                  | 1.27    | 0.49    | 29  | 1.00                 | 27.97   | 5.82    | 29  |
| 10          | 14.52   | 50.50   | 34.46   | 29  | 0.10                  | 1.10    | 0.35    | 28  | 1.00                 | 29.75   | 4.10    | 28  |
| 11          | 22.59   | 58.63   | 41.39   | 29  | 0.10                  | 0.75    | 0.24    | 26  | 1.00                 | 17.01   | 3.15    | 26  |
| 12          | 24.03   | 62.33   | 47.52   | 26  | 0.10                  | 0.49    | 0.16    | 28  | 1.00                 | 8.84    | 1.96    | 28  |
| 13          | 24.36   | 67.11   | 49.68   | 28  | 0.10                  | 0.36    | 0.12    | 29  | 1.00                 | 3.51    | 1.33    | 29  |
| 14          | 24.14   | 68.12   | 50.09   | 30  | 0.10                  | 0.23    | 0.10    | 30  | 1.00                 | 3.29    | 1.23    | 30  |
| 15          | 22.56   | 70.90   | 50.31   | 30  | 0.10                  | 0.20    | 0.10    | 30  | 1.00                 | 4.55    | 1.17    | 30  |
| 16          | 23.94   | 75.40   | 48.54   | 30  | 0.10                  | 0.23    | 0.11    | 30  | 1.00                 | 2.44    | 1.05    | 30  |
| 17          | 20.75   | 72.80   | 45.83   | 30  | 0.10                  | 0.56    | 0.13    | 30  | 1.00                 | 3.99    | 1.10    | 30  |
| 18          | 14.49   | 60.48   | 39.27   | 30  | 0.10                  | 0.64    | 0.15    | 30  | 1.00                 | 5.78    | 1.16    | 30  |
| 19          | 2.98    | 48.31   | 32.45   | 30  | 0.10                  | 1.10    | 0.21    | 30  | 1.00                 | 5.07    | 1.24    | 30  |
| 20          | 1.00    | 44.90   | 26.00   | 30  | 0.10                  | 1.53    | 0.31    | 30  | 1.00                 | 9.94    | 1.46    | 30  |
| 21          | 1.00    | 42.22   | 20.58   | 30  | 0.10                  | 2.00    | 0.45    | 30  | 1.00                 | 18.78   | 2.58    | 30  |
| 22          | 1.00    | 42.92   | 19.60   | 30  | 0.10                  | 2.53    | 0.49    | 30  | 1.00                 | 7.41    | 2.05    | 30  |
| 23          | 1.00    | 44.71   | 17.86   | 30  | 0.10                  | 1.96    | 0.51    | 30  | 1.00                 | 5.50    | 1.65    | 30  |
| 24          | 1.00    | 44.16   | 17.71   | 30  | 0.10                  | 2.10    | 0.45    | 30  | 1.00                 | 9.22    | 1.70    | 30  |
|             | 1.00    | 75.40   | 28.80   | 710 | 0.10                  | 2.53    | 0.31    | 709 | 1.00                 | 29.75   | 2.06    | 709 |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: RMA(COMPOSITE)

Period: 9/ 1/91 thru 9/30/91

Month and year of record: SEPTEMBER, 91

| NITRIC OXIDE (PPB) |         |         |         |     | NITROGEN DIOXIDE (PPB) |         |         |     | NITROGEN OXIDES (PPB) |         |         |     |
|--------------------|---------|---------|---------|-----|------------------------|---------|---------|-----|-----------------------|---------|---------|-----|
| HR                 | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM                | MAXIMUM | AVERAGE | OBS | MINIMUM               | MAXIMUM | AVERAGE | OBS |
| 1                  | 1.00    | 42.80   | 5.34    | 30  | 1.00                   | 55.96   | 18.50   | 30  | 3.35                  | 99.70   | 25.02   | 30  |
| 2                  | 1.00    | 28.00   | 3.46    | 30  | 1.00                   | 43.77   | 16.82   | 30  | 3.72                  | 62.06   | 21.47   | 30  |
| 3                  | 1.00    | 23.72   | 2.82    | 30  | 1.00                   | 37.58   | 17.46   | 30  | 3.24                  | 60.29   | 21.41   | 30  |
| 4                  | 1.00    | 20.32   | 2.43    | 30  | 1.00                   | 40.89   | 16.51   | 30  | 2.58                  | 62.12   | 19.99   | 30  |
| 5                  | 1.00    | 23.28   | 3.39    | 30  | 1.00                   | 39.68   | 16.78   | 30  | 1.00                  | 63.86   | 21.13   | 30  |
| 6                  | 1.00    | 33.63   | 6.35    | 30  | 1.00                   | 41.20   | 19.13   | 30  | 2.65                  | 71.50   | 26.50   | 30  |
| 7                  | 1.00    | 63.26   | 19.17   | 30  | 2.38                   | 40.20   | 20.44   | 30  | 4.35                  | 97.80   | 40.57   | 30  |
| 8                  | 1.00    | 126.50  | 29.96   | 29  | 2.17                   | 48.52   | 24.54   | 29  | 4.77                  | 173.40  | 55.47   | 29  |
| 9                  | 1.00    | 56.82   | 16.39   | 26  | 1.00                   | 49.81   | 20.31   | 26  | 3.71                  | 95.90   | 37.72   | 26  |
| 10                 | 1.00    | 48.55   | 9.26    | 26  | 1.00                   | 55.61   | 16.40   | 26  | 4.47                  | 96.10   | 26.67   | 26  |
| 11                 | 1.00    | 15.75   | 5.22    | 29  | 1.00                   | 35.62   | 11.55   | 29  | 3.72                  | 49.78   | 17.72   | 29  |
| 12                 | 1.00    | 6.17    | 3.18    | 29  | 1.00                   | 22.67   | 7.20    | 29  | 3.45                  | 29.81   | 11.53   | 29  |
| 13                 | 1.00    | 5.58    | 2.73    | 29  | 1.00                   | 16.58   | 5.32    | 29  | 2.26                  | 22.18   | 9.16    | 29  |
| 14                 | 1.00    | 13.13   | 2.91    | 30  | 1.00                   | 13.36   | 4.03    | 30  | 3.42                  | 17.76   | 8.09    | 30  |
| 15                 | 1.00    | 4.74    | 2.70    | 30  | 1.00                   | 12.82   | 3.86    | 30  | 4.26                  | 18.13   | 7.70    | 30  |
| 16                 | 1.00    | 3.86    | 2.77    | 30  | 1.00                   | 10.54   | 3.92    | 30  | 4.28                  | 15.05   | 7.80    | 30  |
| 17                 | 1.00    | 6.45    | 2.92    | 30  | 1.00                   | 22.54   | 5.08    | 30  | 3.48                  | 29.95   | 9.13    | 30  |
| 18                 | 1.00    | 7.15    | 2.53    | 30  | 1.00                   | 29.29   | 7.30    | 30  | 2.63                  | 37.41   | 11.03   | 30  |
| 19                 | 1.00    | 8.73    | 2.35    | 30  | 1.00                   | 48.70   | 11.85   | 30  | 3.76                  | 58.34   | 15.35   | 30  |
| 20                 | 1.00    | 31.59   | 4.00    | 30  | 1.00                   | 68.98   | 16.43   | 30  | 2.96                  | 101.60  | 21.49   | 30  |
| 21                 | 1.00    | 79.10   | 8.79    | 30  | 1.00                   | 72.10   | 21.26   | 30  | 3.09                  | 126.50  | 31.09   | 30  |
| 22                 | 1.00    | 96.20   | 9.68    | 30  | 1.00                   | 59.21   | 21.91   | 30  | 3.78                  | 143.50  | 32.61   | 30  |
| 23                 | 1.00    | 72.30   | 9.30    | 30  | 1.00                   | 65.77   | 21.69   | 30  | 3.48                  | 116.00  | 32.07   | 30  |
| 24                 | 1.00    | 67.25   | 7.38    | 30  | 1.00                   | 59.73   | 20.15   | 30  | 3.16                  | 99.80   | 28.64   | 30  |
| 1.00               | 126.50  | 6.88    | 708     |     | 1.00                   | 72.10   | 14.52   | 708 | 1.00                  | 173.40  | 22.47   | 708 |

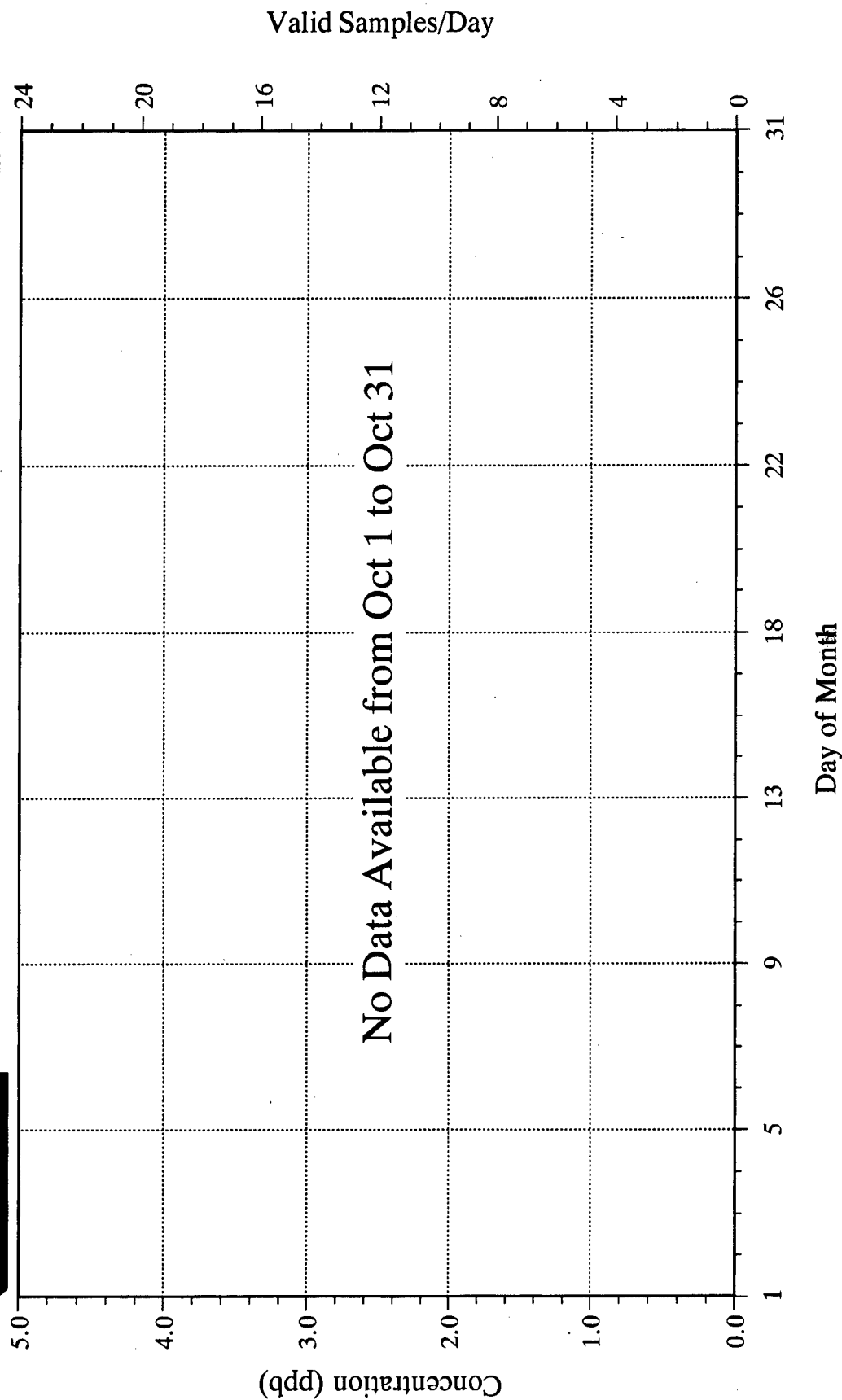
H1 CARBON MONOXIDE (CO)

# Carbon Monoxide

October 1990

---▲--- Mean  
---○--- Maximum

---■--- Valid Samples/Day



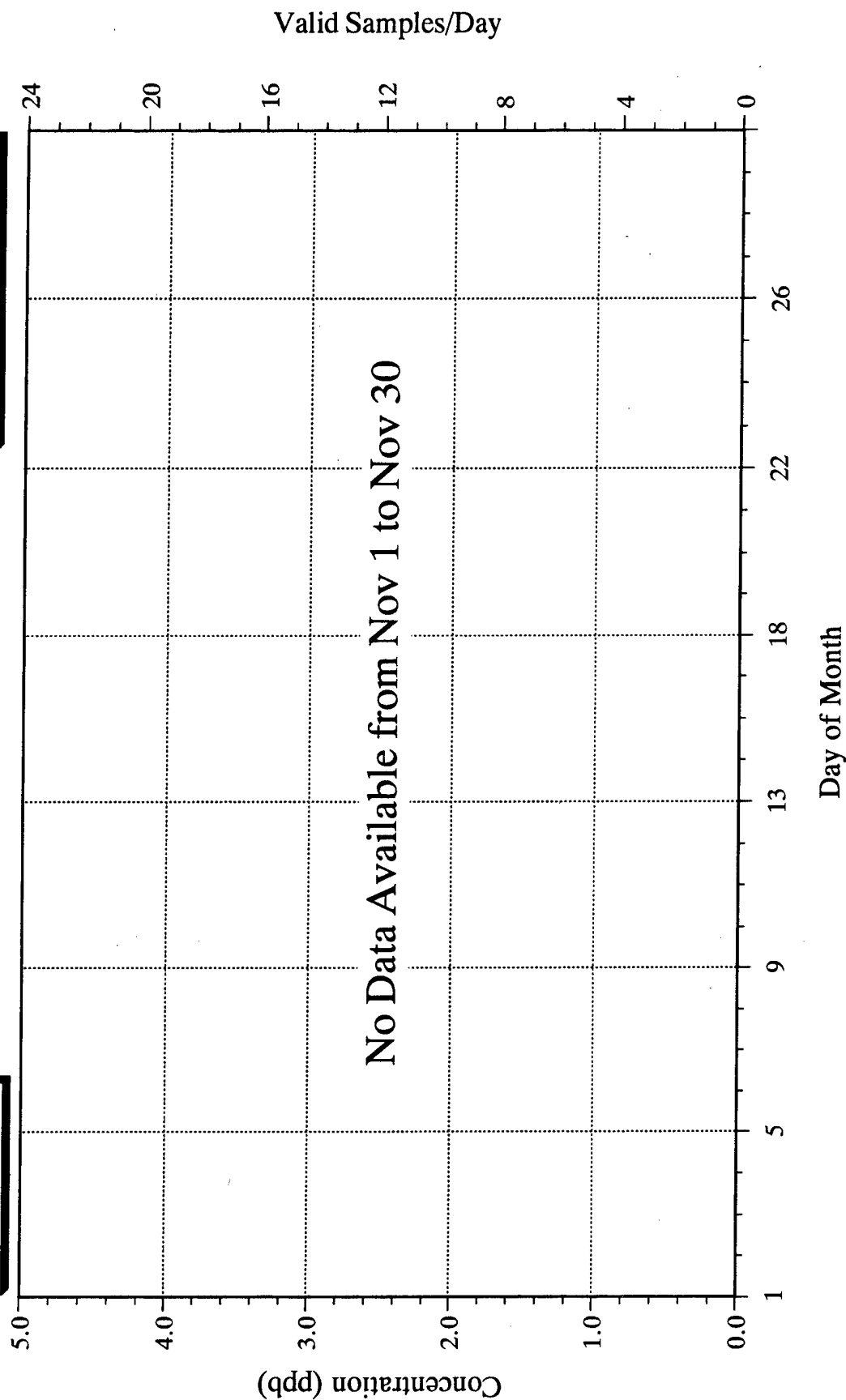
RMA-CAQMMP Carbon Monoxide  
Concentrations for October 1990

# Carbon Monoxide

November 1990

---▲--- Mean  
---○--- Maximum

---■--- Valid Samples/Day



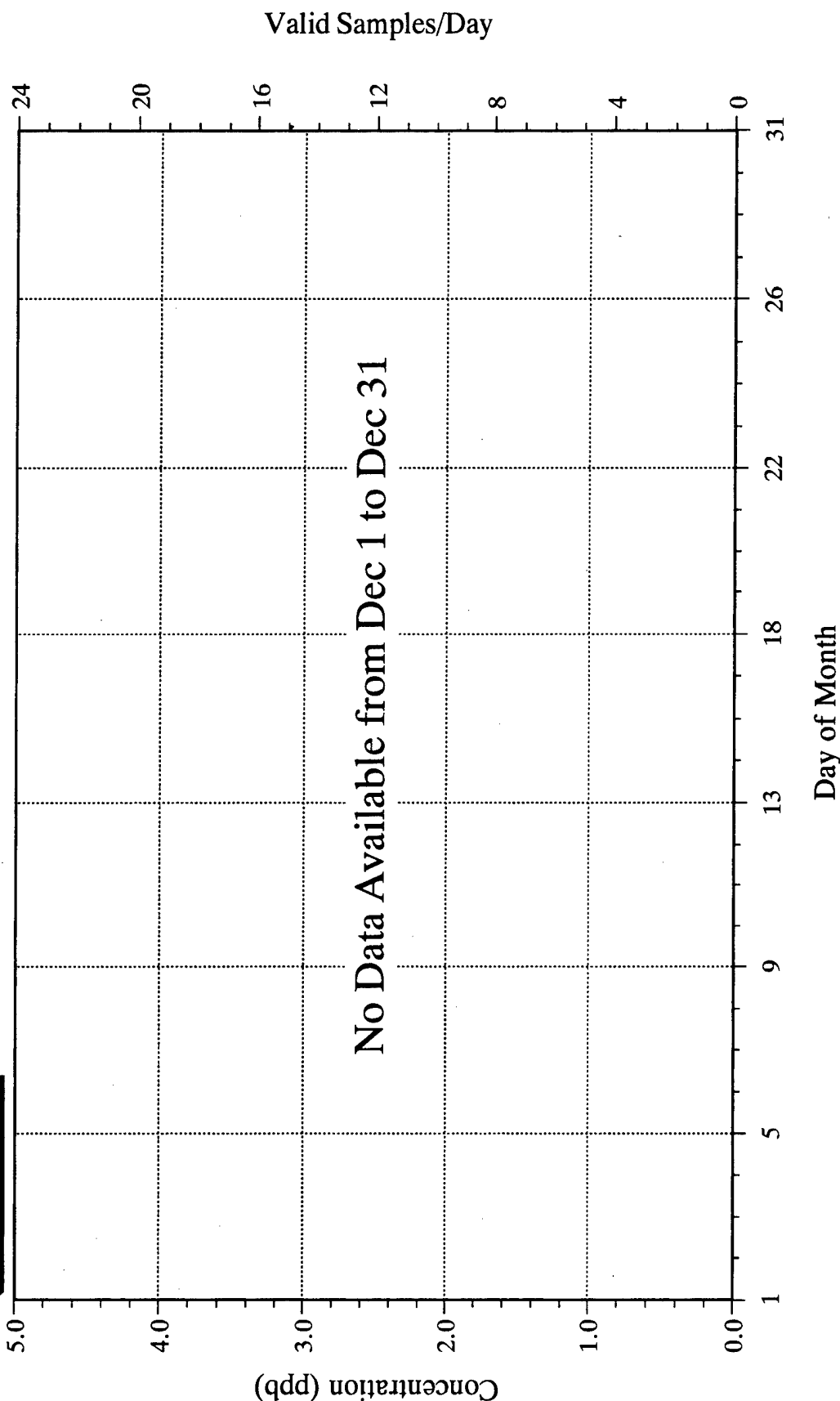
RMA-CAQMMP Carbon Monoxide  
Concentrations for November 1990

# Carbon Monoxide

December 1990

---▲--- Mean  
—○— Maximum

—■— Valid Samples/Day



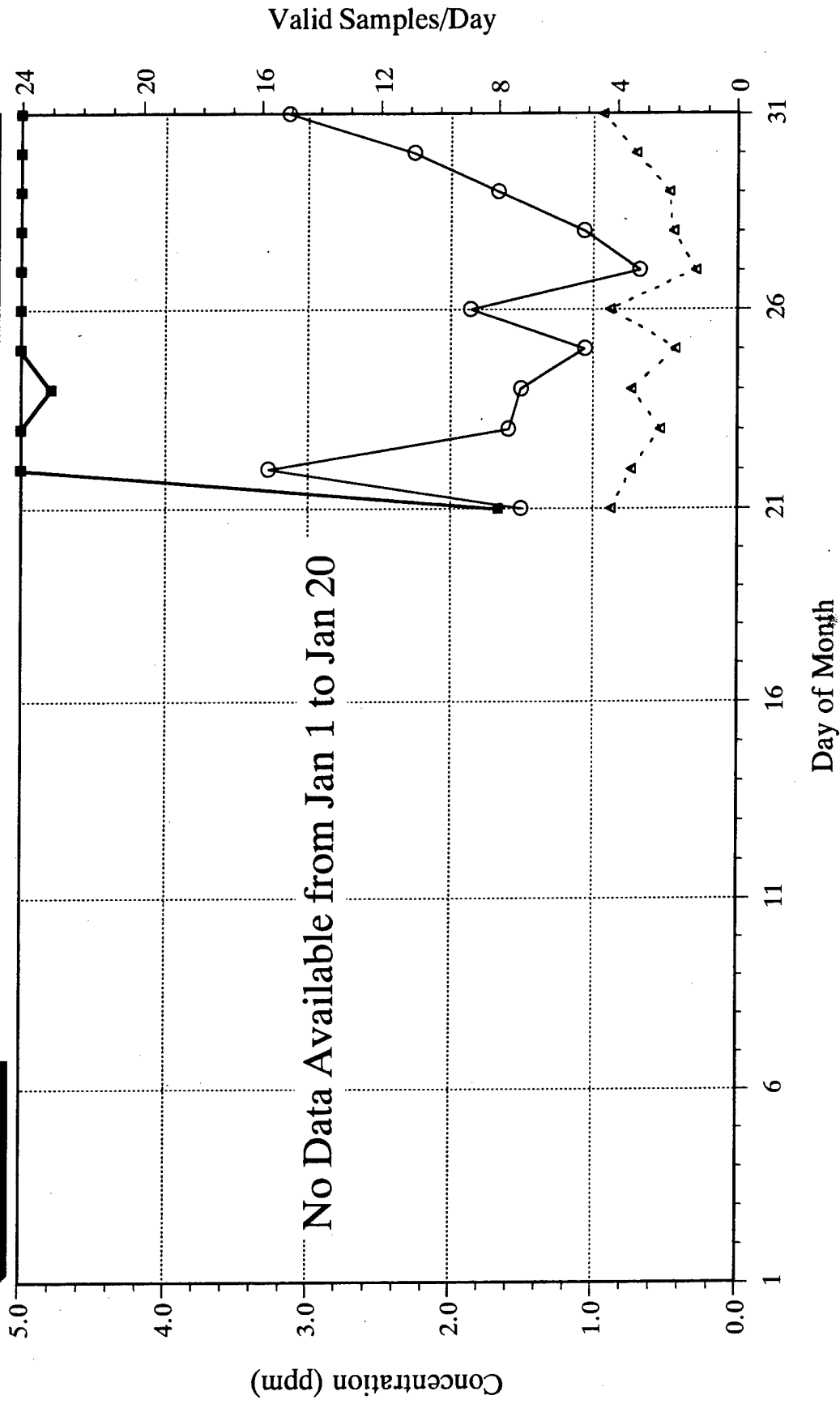
RMA-CAQMMP Carbon Monoxide  
Concentrations for December 1990

# Carbon Monoxide

January 1991

---▲--- Mean  
—○— Maximum

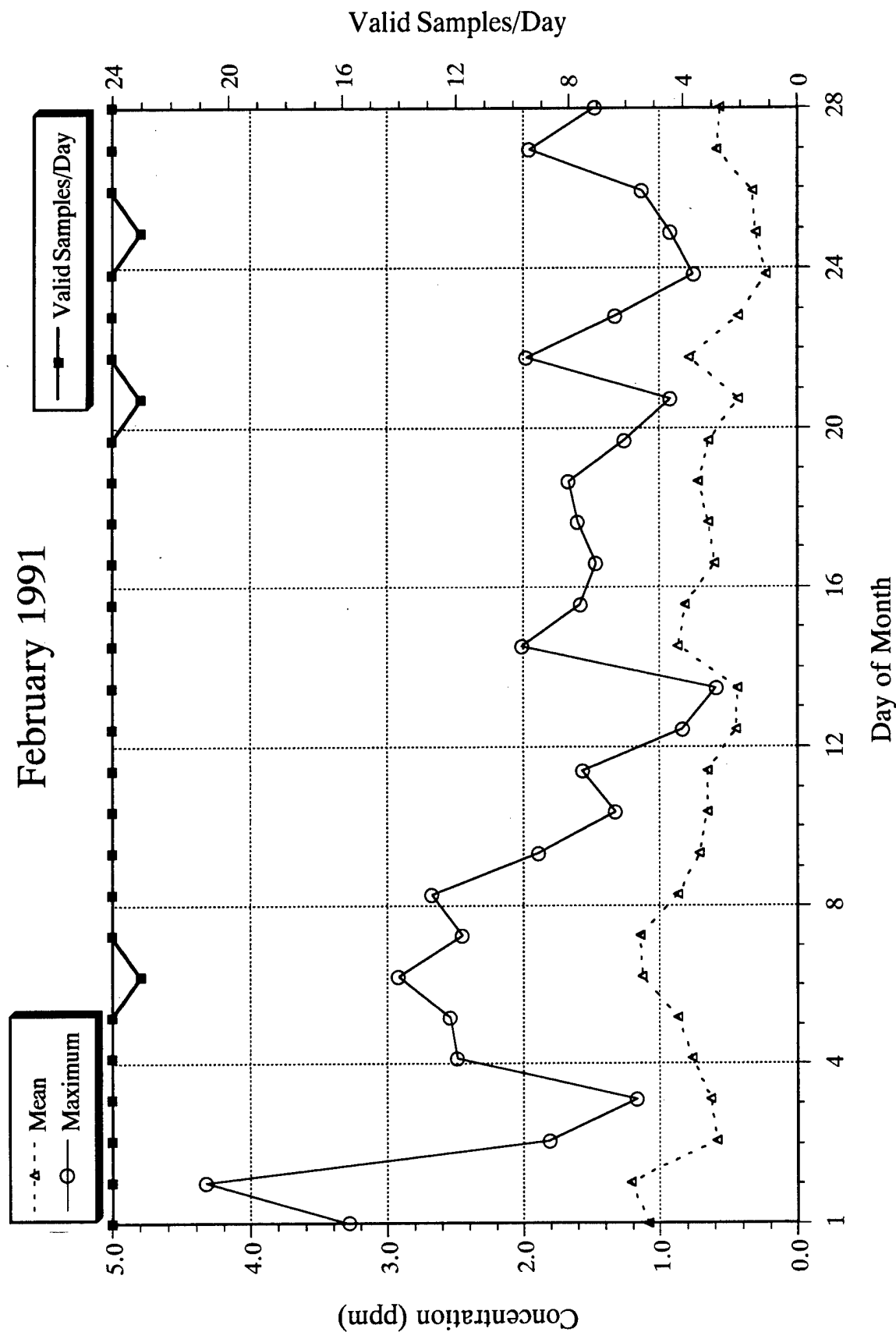
—■— Valid Samples/Day



RMA-CAQMMP Carbon Monoxide  
Concentrations for January 1991

# Carbon Monoxide

February 1991



RMA-CAQMMP Carbon Monoxide  
Concentrations for February 1991



# Carbon Monoxide

March 1991

---△--- Mean  
—○— Maximum

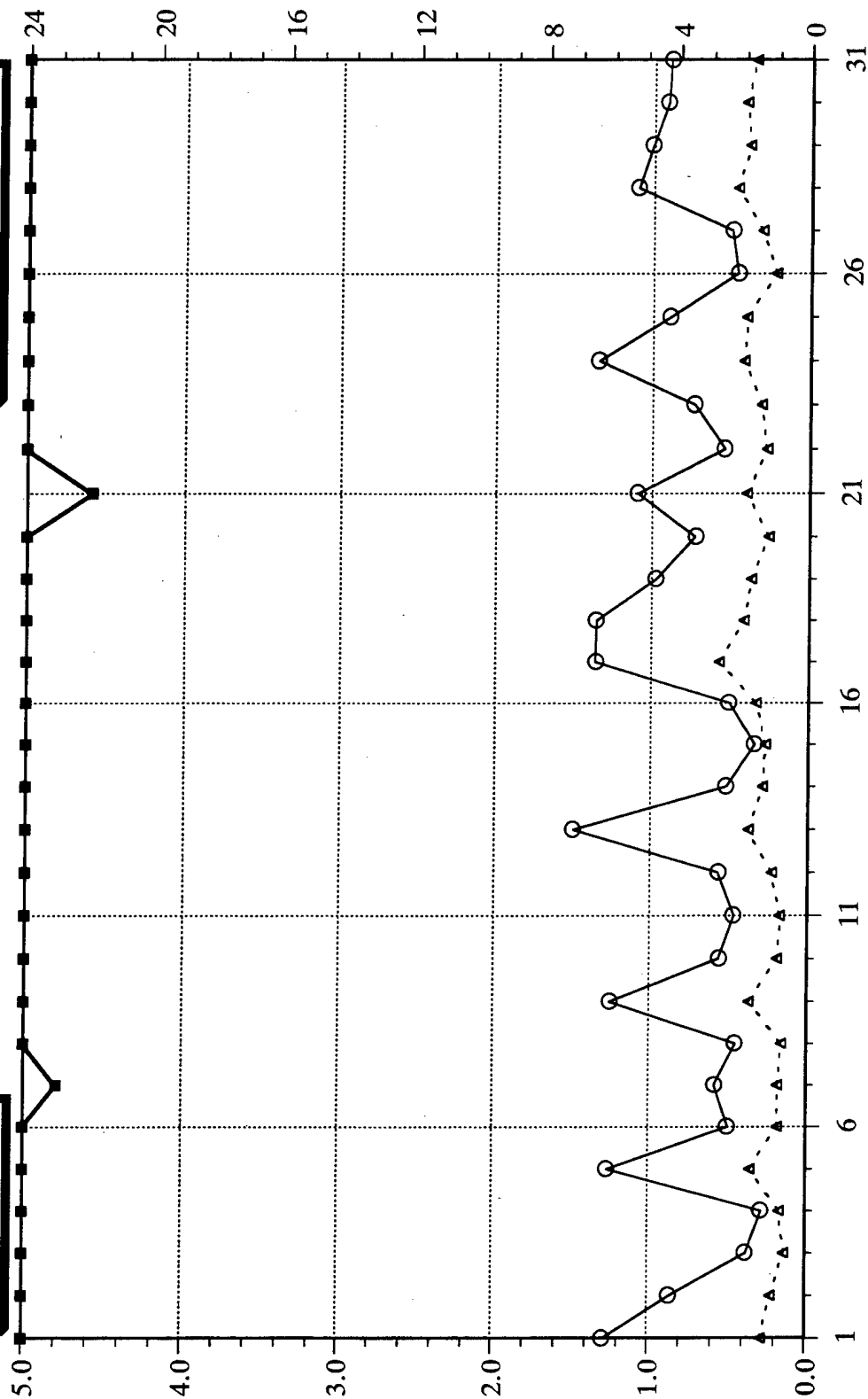
—■— Valid Samples/Day

Concentration (ppm)

Valid Samples/Day

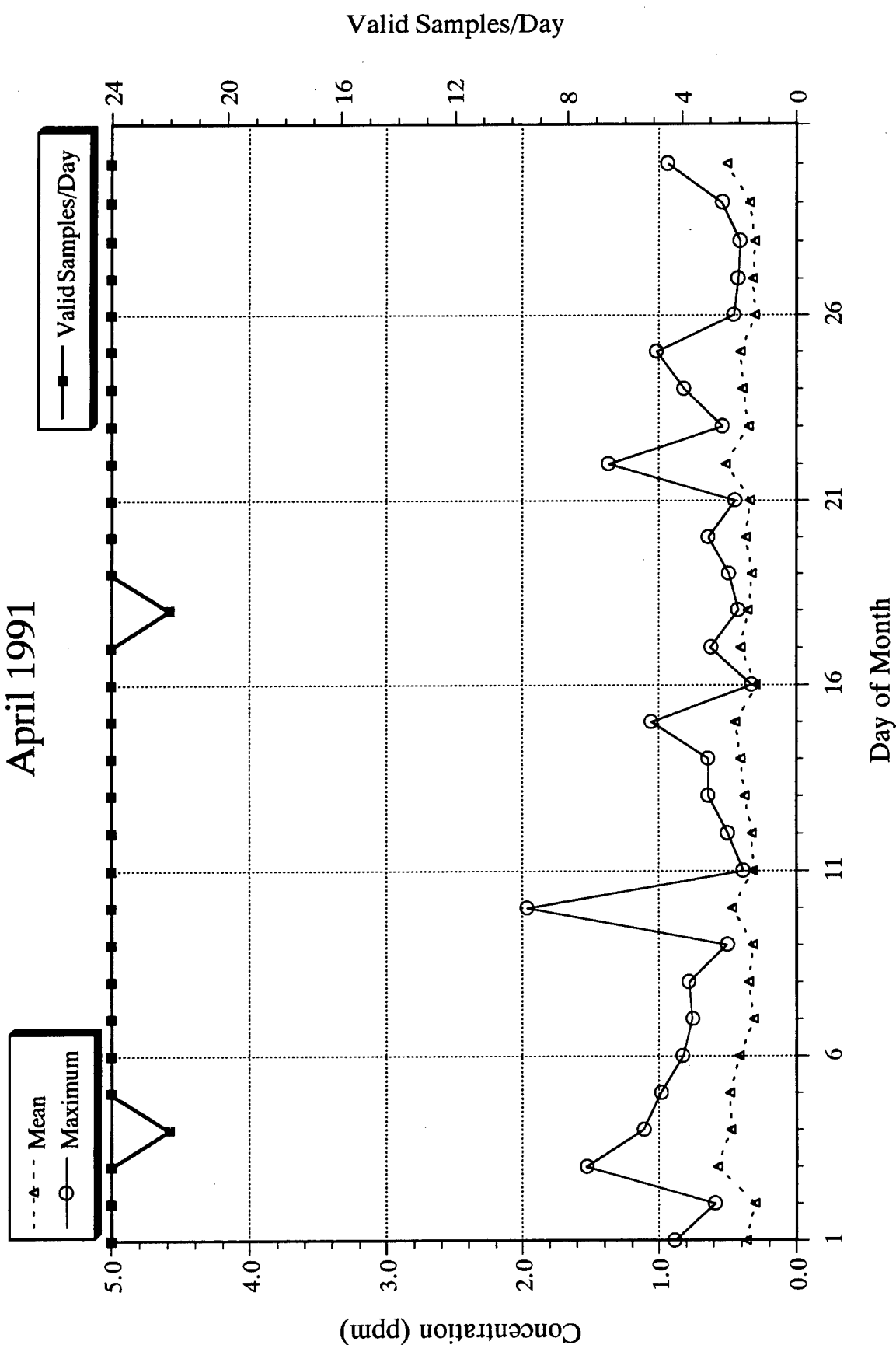
Day of Month

RMA-CAQMMP Carbon Monoxide  
Concentrations for March 1991



## Carbon Monoxide

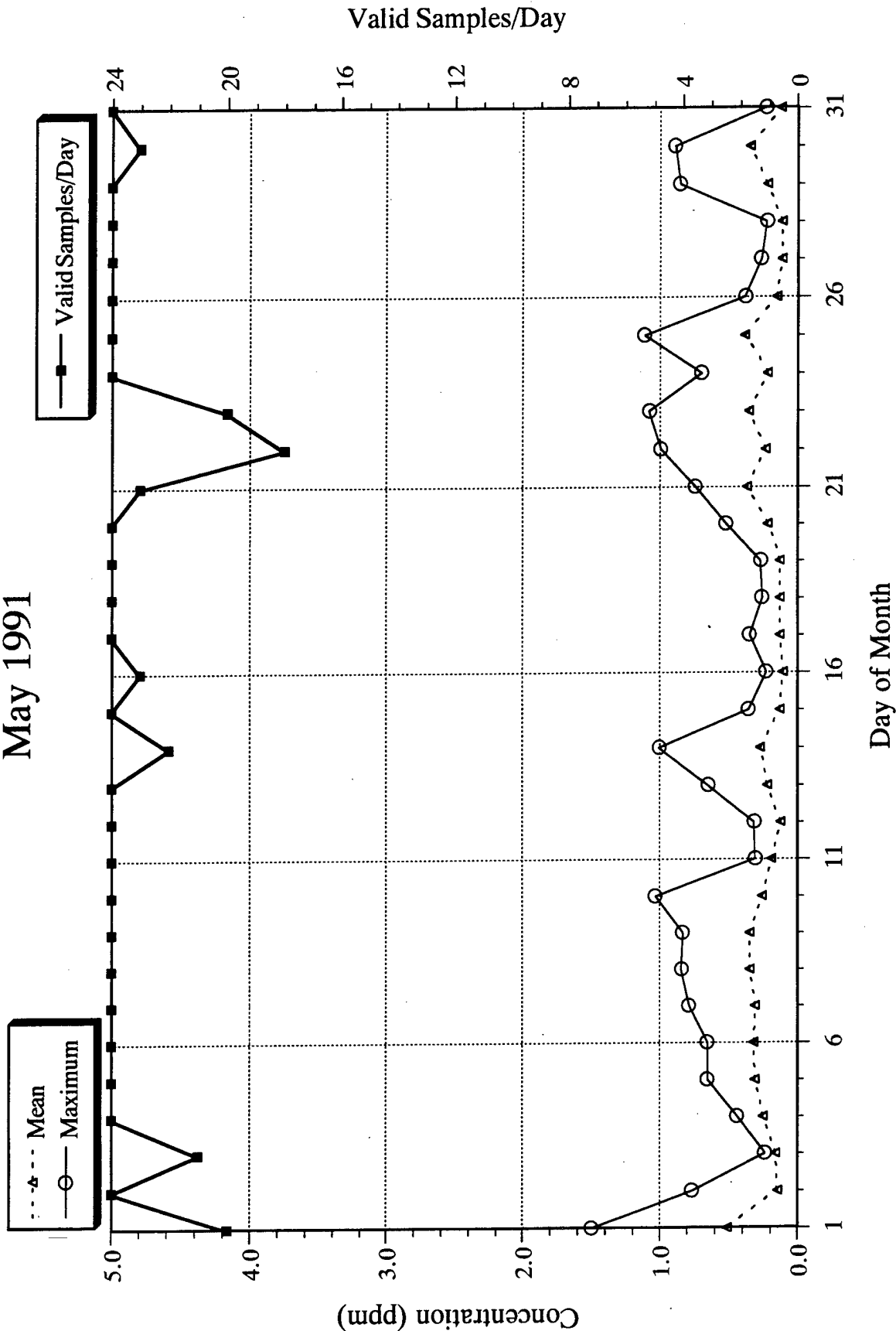
April 1991



RMA-CAQMMP Carbon Monoxide  
Concentrations for April 1991

# Carbon Monoxide

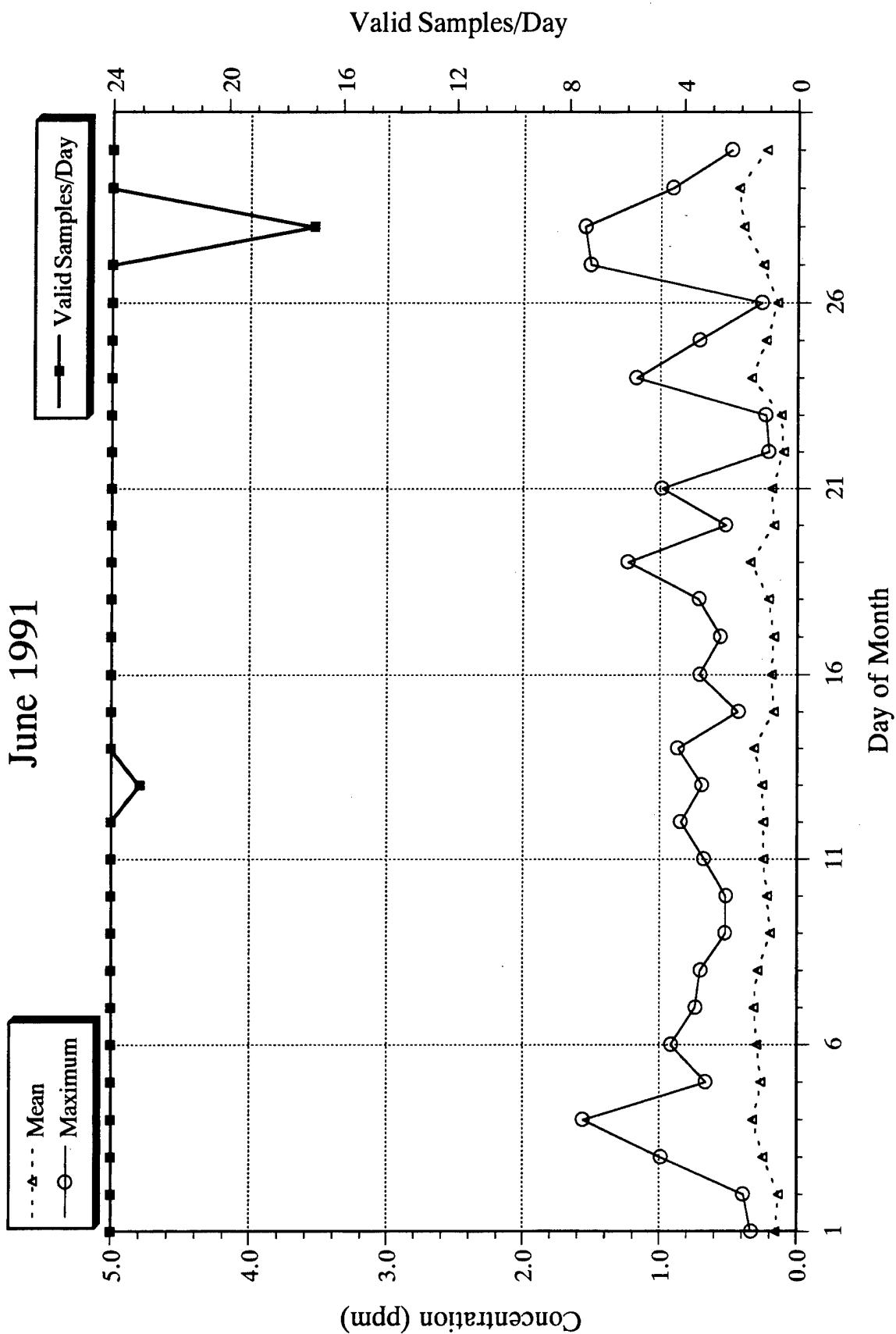
May 1991



RMA-CAQMMP Carbon Monoxide  
Concentrations for May 1991

## Carbon Monoxide

June 1991



RMA-CAQMMP Carbon Monoxide  
Concentrations for June 1991

# Carbon Monoxide

July 1991

---▲--- Mean  
—○— Maximum

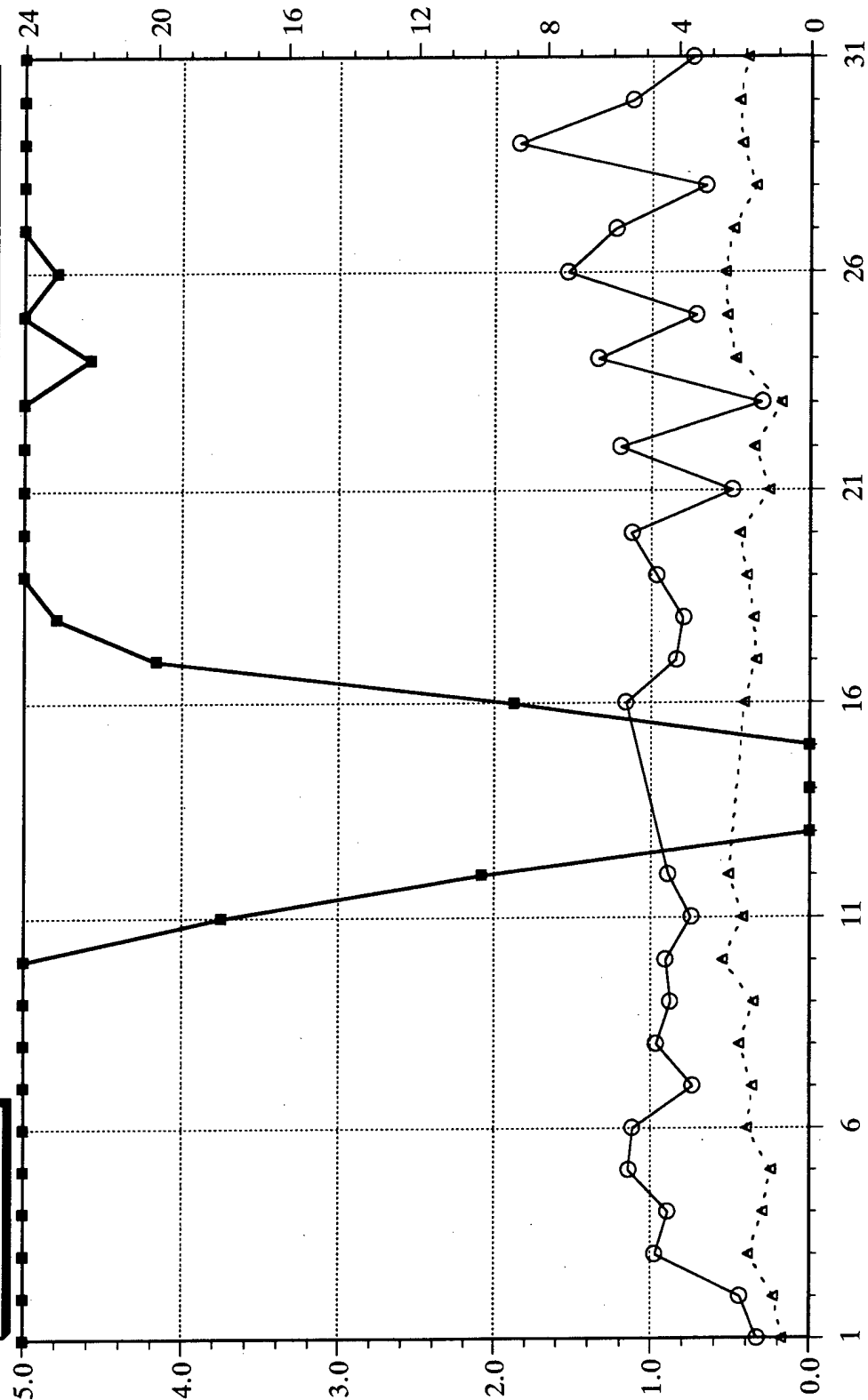
—■— Valid Samples/Day

Concentration (ppm)

Valid Samples/Day

Day of Month

RMA-CAQMMP Carbon Monoxide  
Concentrations for July 1991

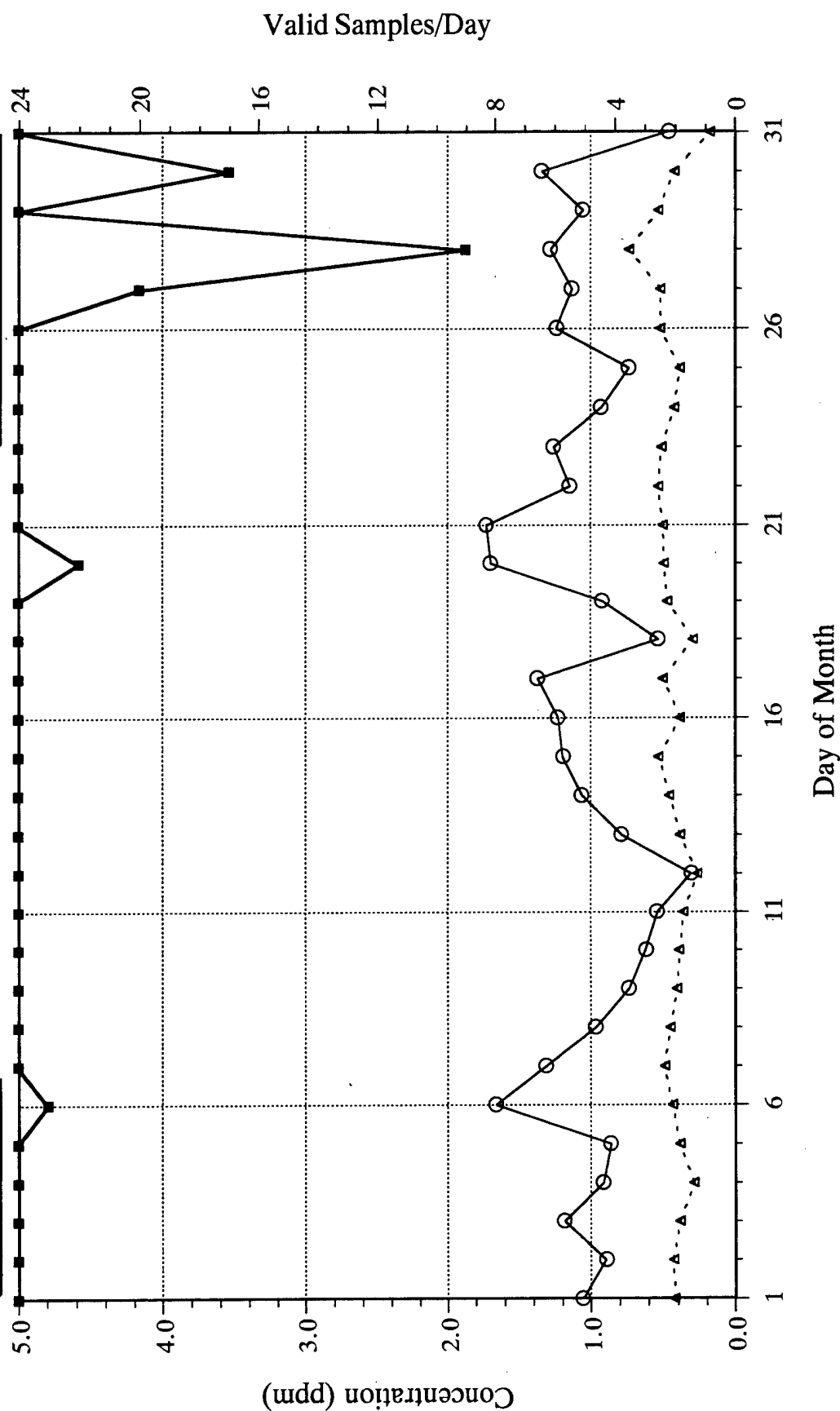


# Carbon Monoxide

August 1991

--- Mean  
—○— Maximum

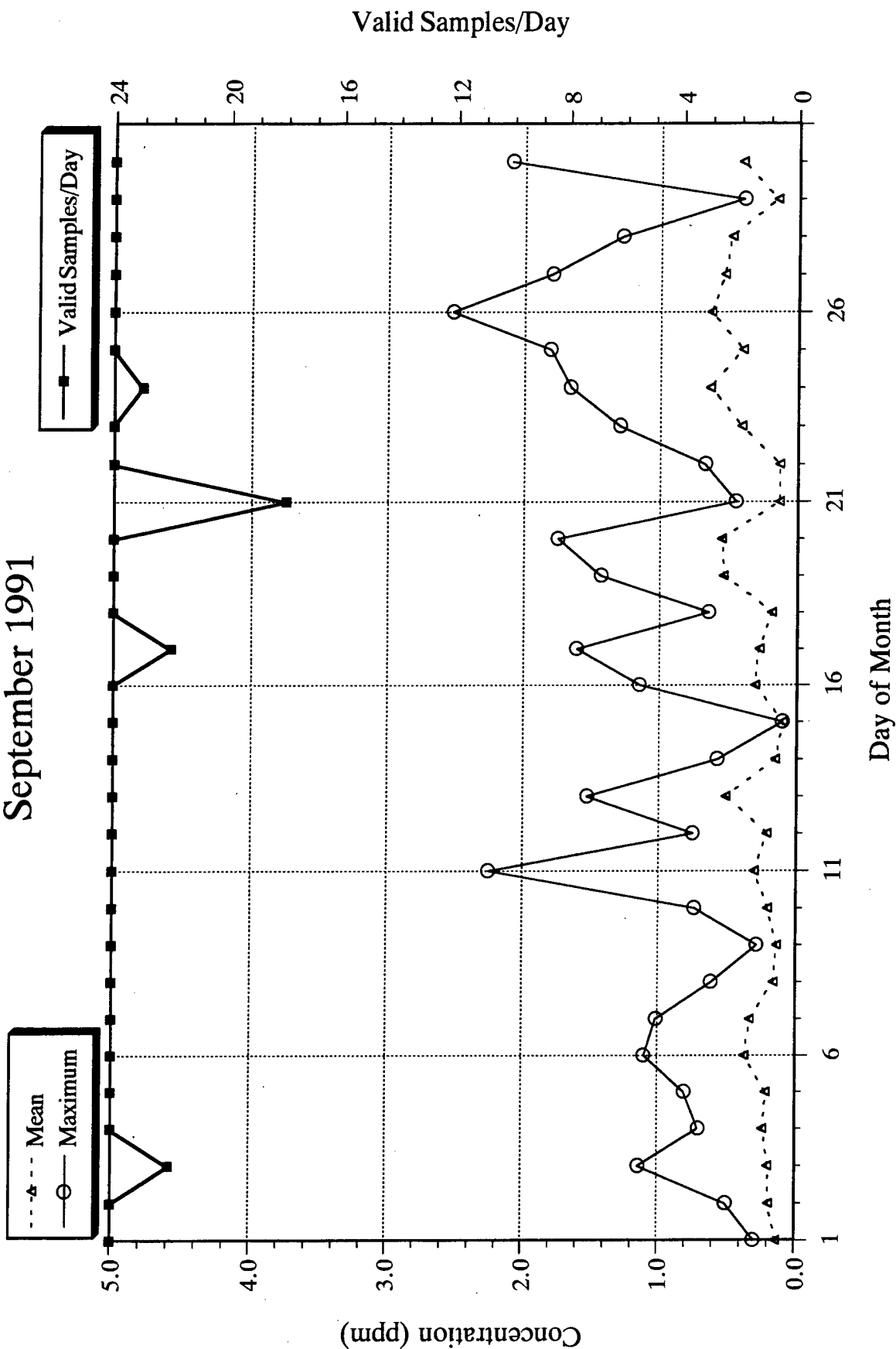
—■— Valid Samples/Day



RMA-CAQMMP Carbon Monoxide  
Concentrations for August 1991

# Carbon Monoxide

September 1991



RMA-CAQMMP Carbon Monoxide  
Concentrations for September 1991

H2 OZONE (O3)

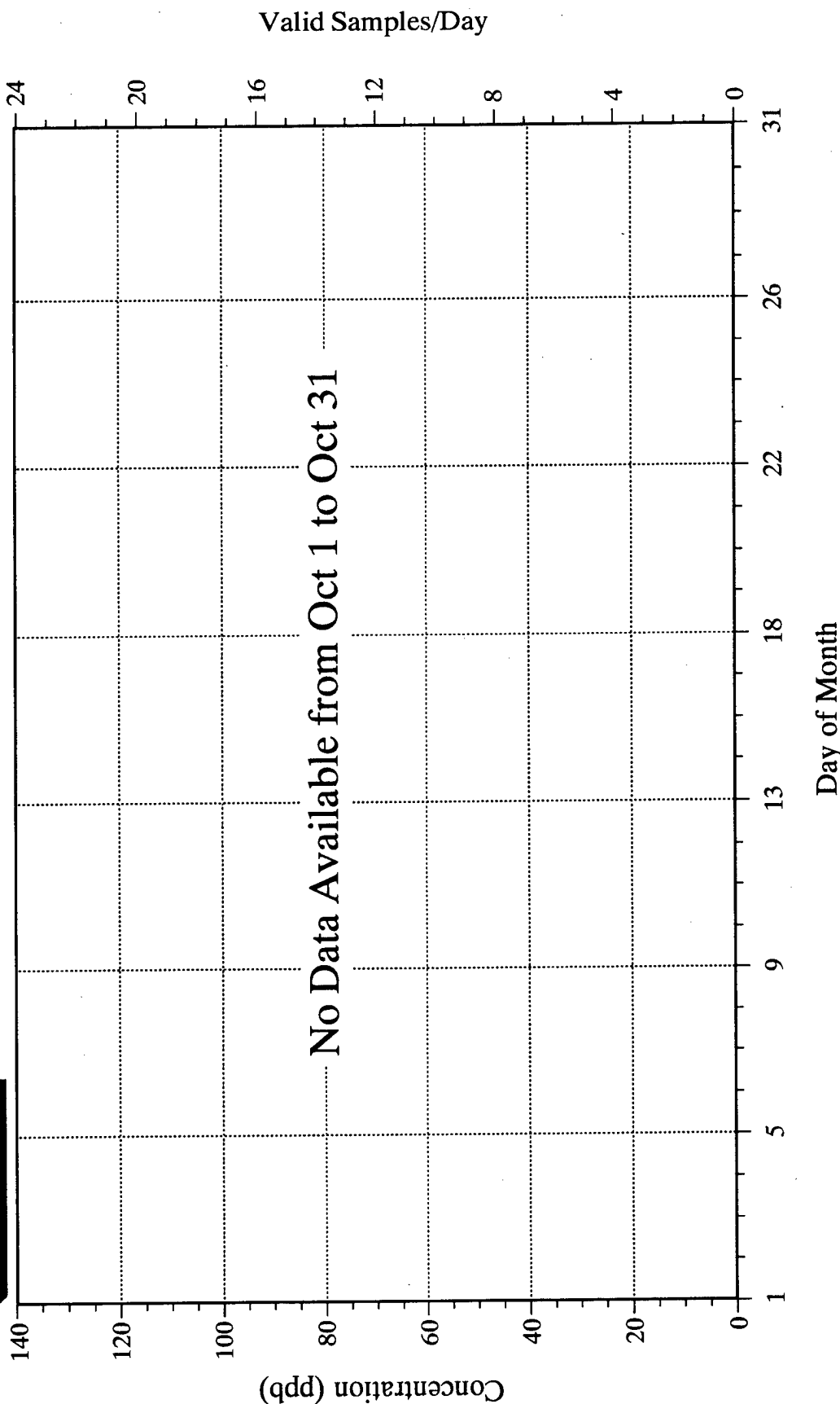


# Ozone

October 1990

---△--- Mean  
—○— Maximum

—■— Valid Samples/Day



RMA-CAQMMP Ozone Concentrations for  
October 1990

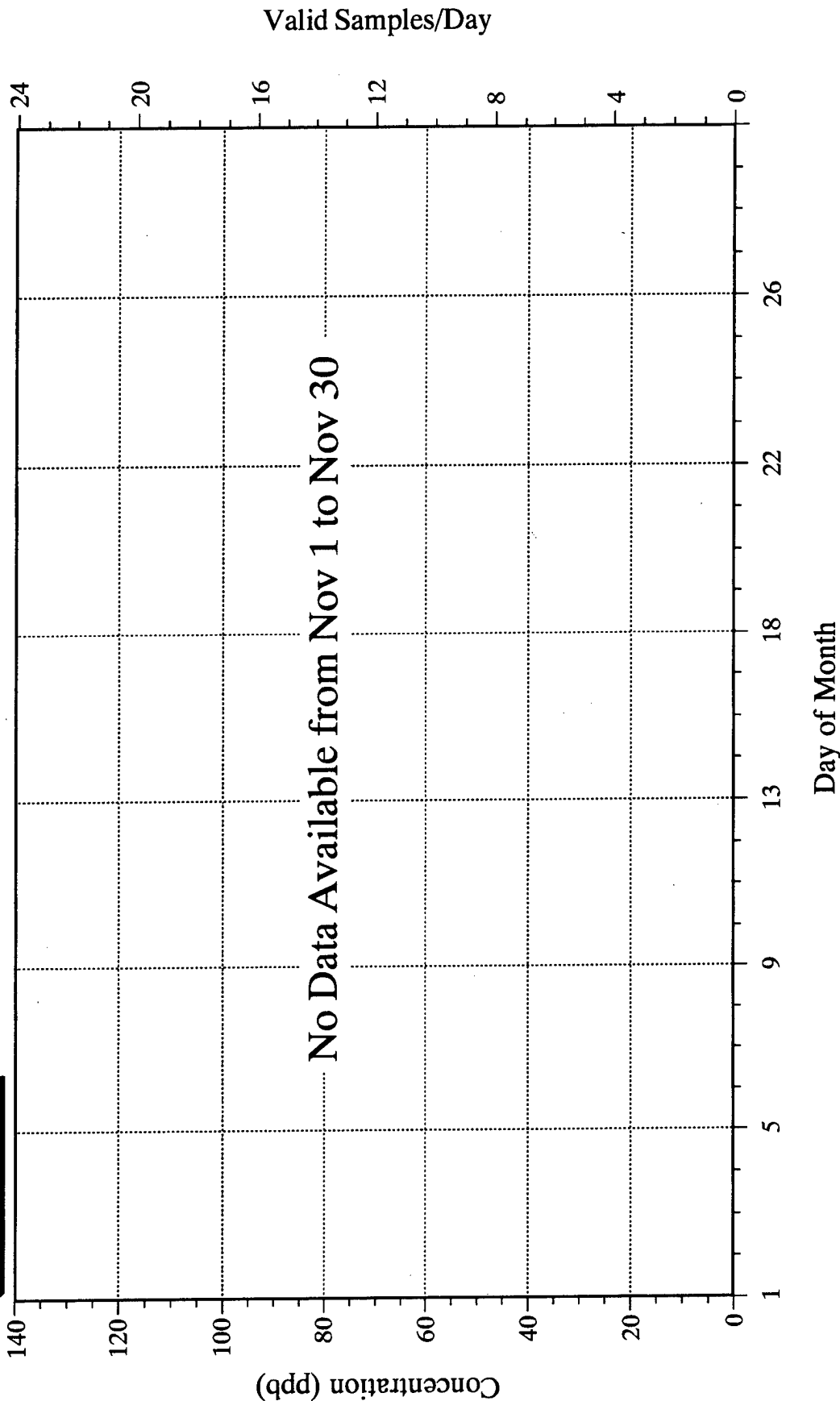


# Ozone

## November 1990

---▲--- Mean  
—○— Maximum

—■— Valid Samples/Day



RMA-CAQMMP Ozone Concentrations for  
November 1990

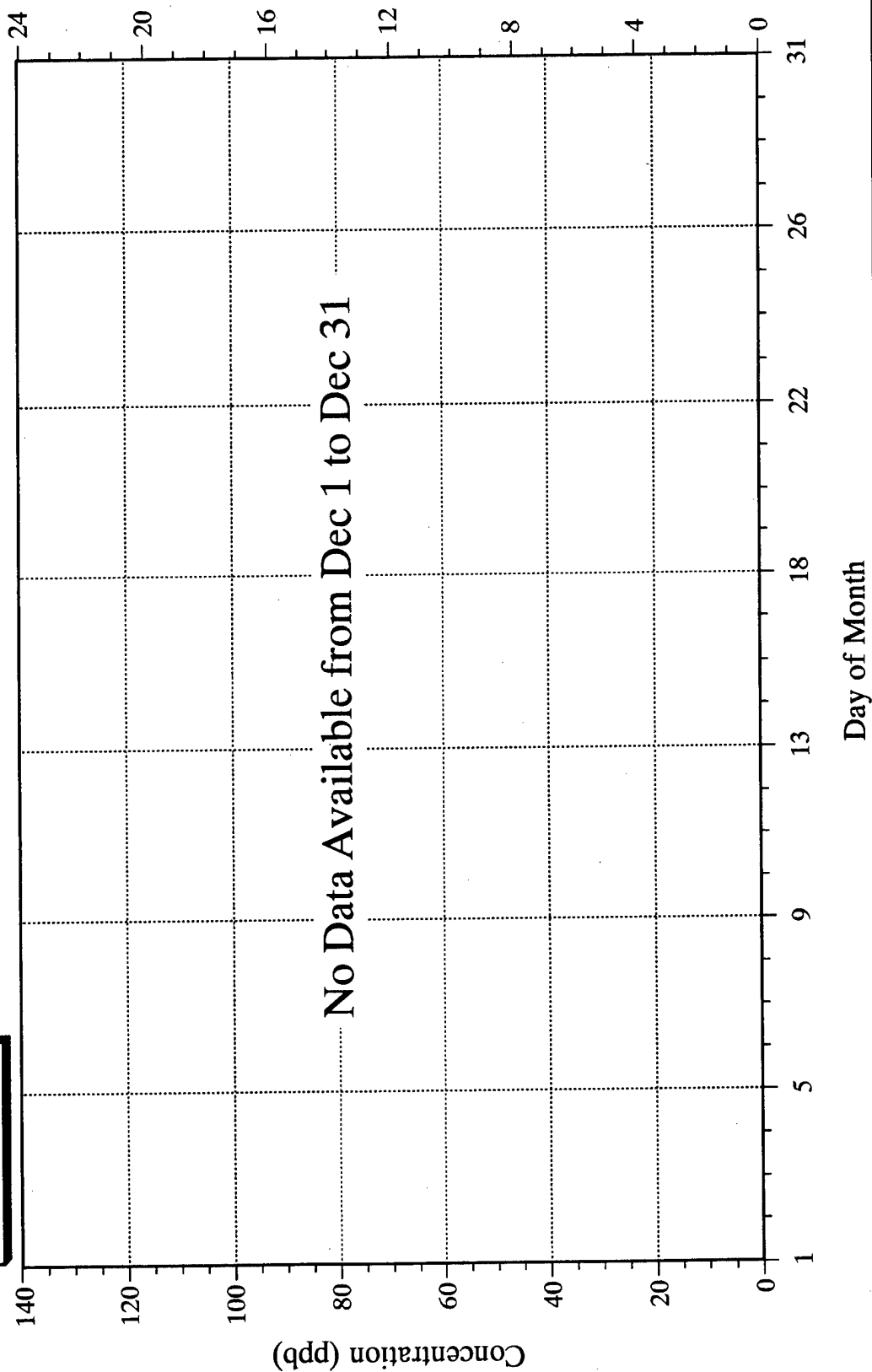


# Ozone

## December 1990

---▲--- Mean  
---○--- Maximum

---■--- Valid Samples/Day



RMA-CAQMMP Ozone Concentrations for

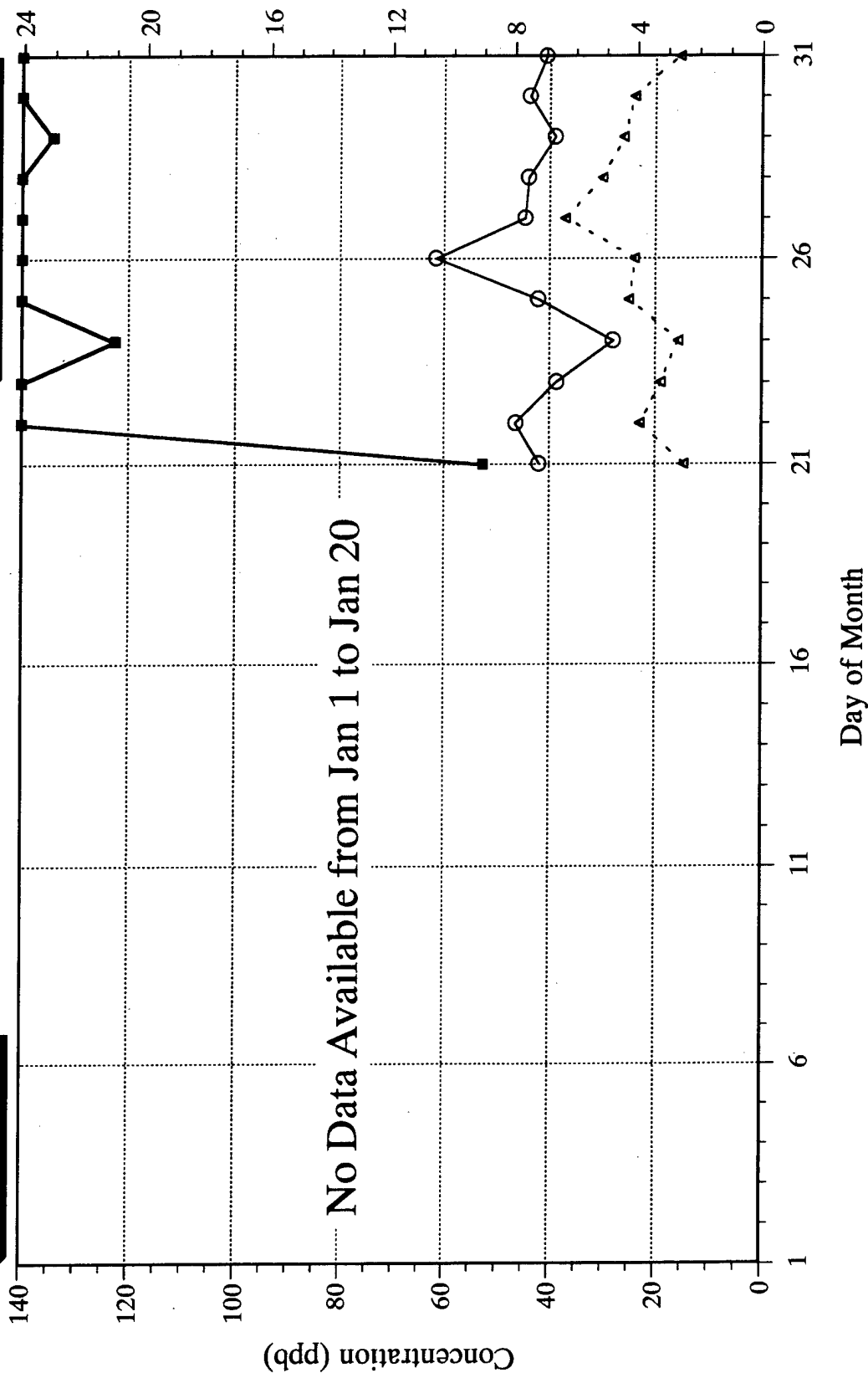
December 1990

# Ozone

## January 1991

---▲--- Mean  
 ---○--- Maximum

---■--- Valid Samples/Day

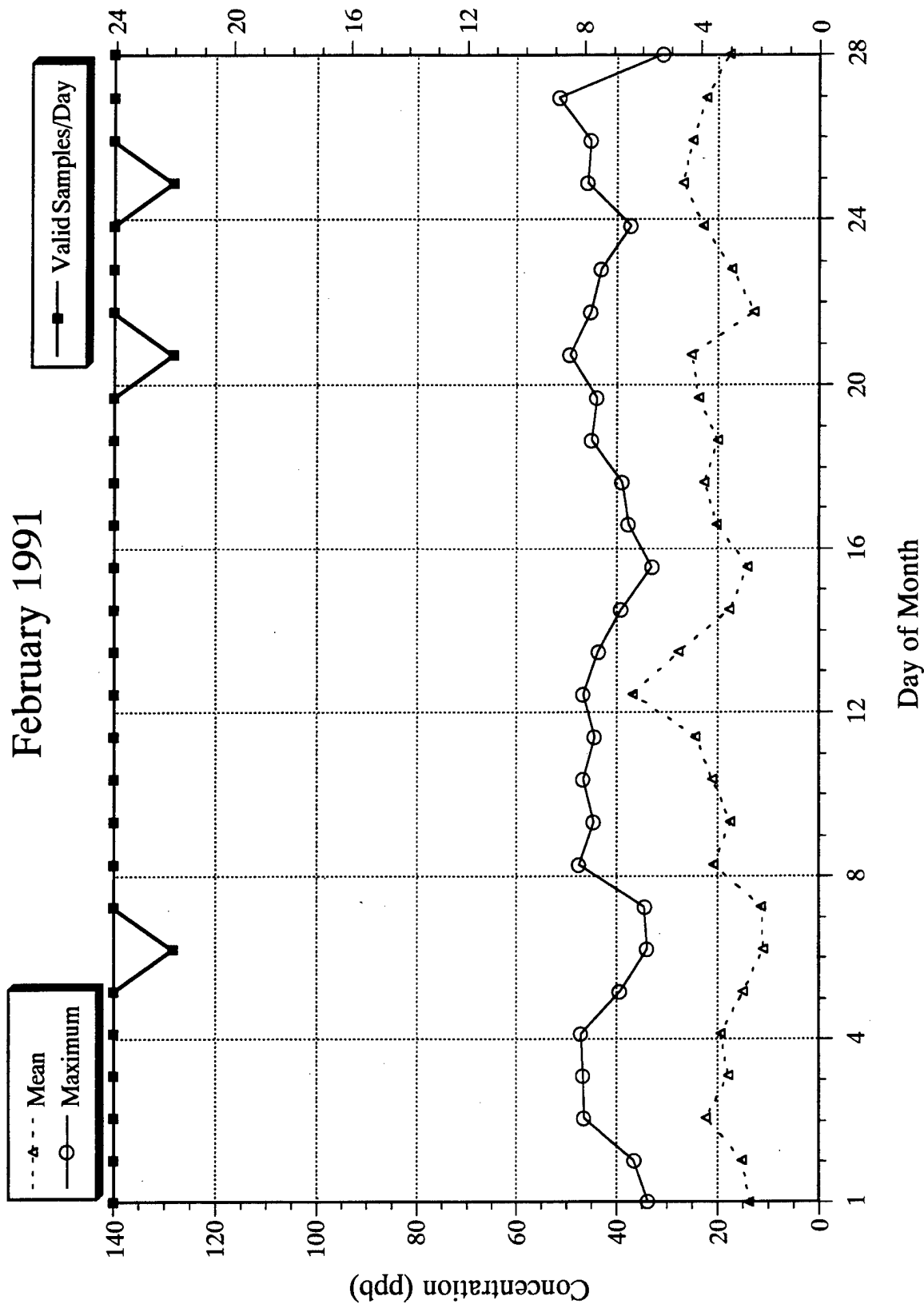


No Data Available from Jan 1 to Jan 20

RMA-CAQMMP Ozone Concentrations for  
 January 1991



# Ozone February 1991



RMA-CAQMMP Ozone Concentrations for  
February 1991

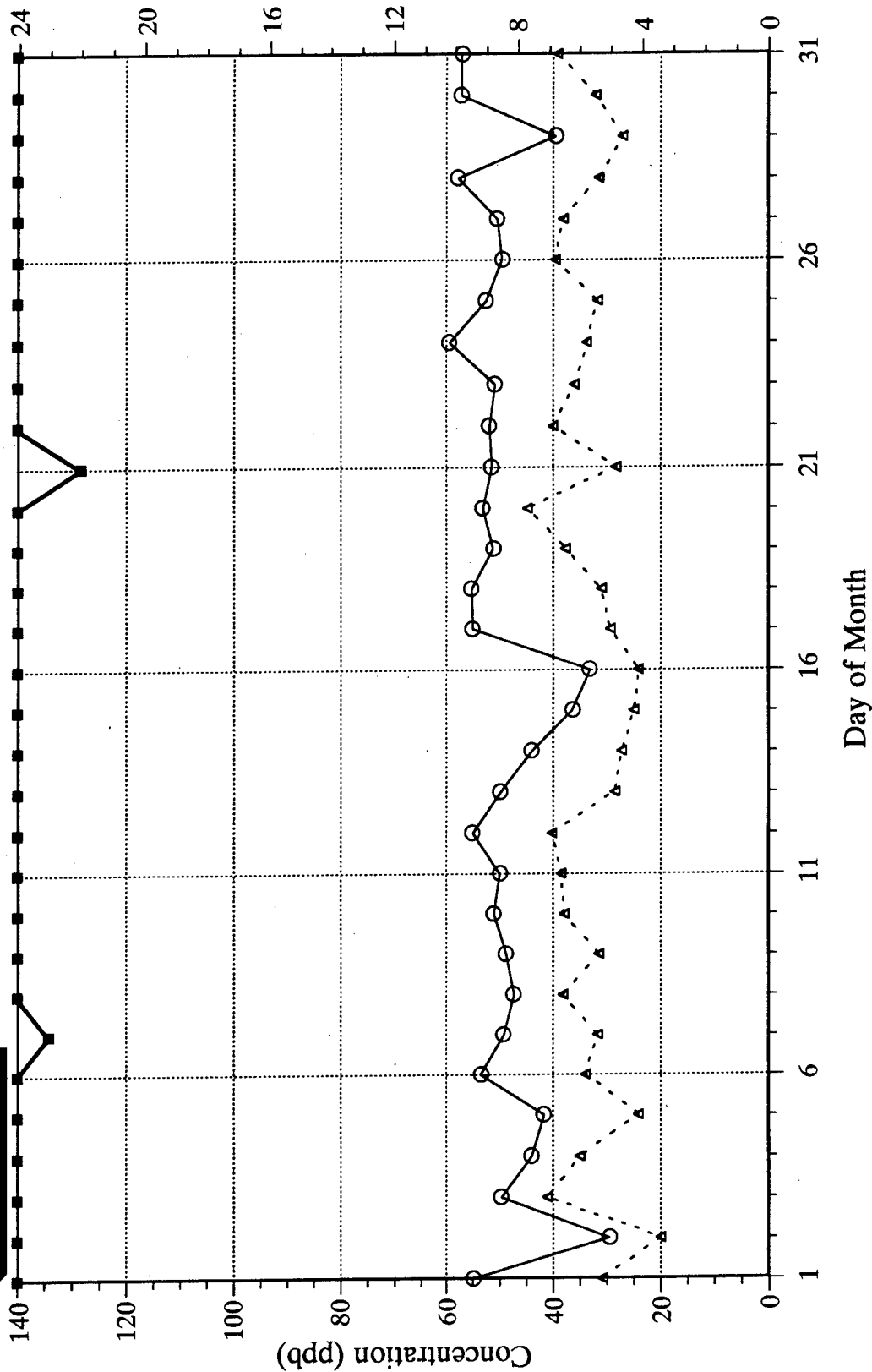


# Ozone

## March 1991

---△--- Mean  
—○— Maximum

—■— Valid Samples/Day



RMA-CAQMMP Ozone Concentrations for  
March 1991

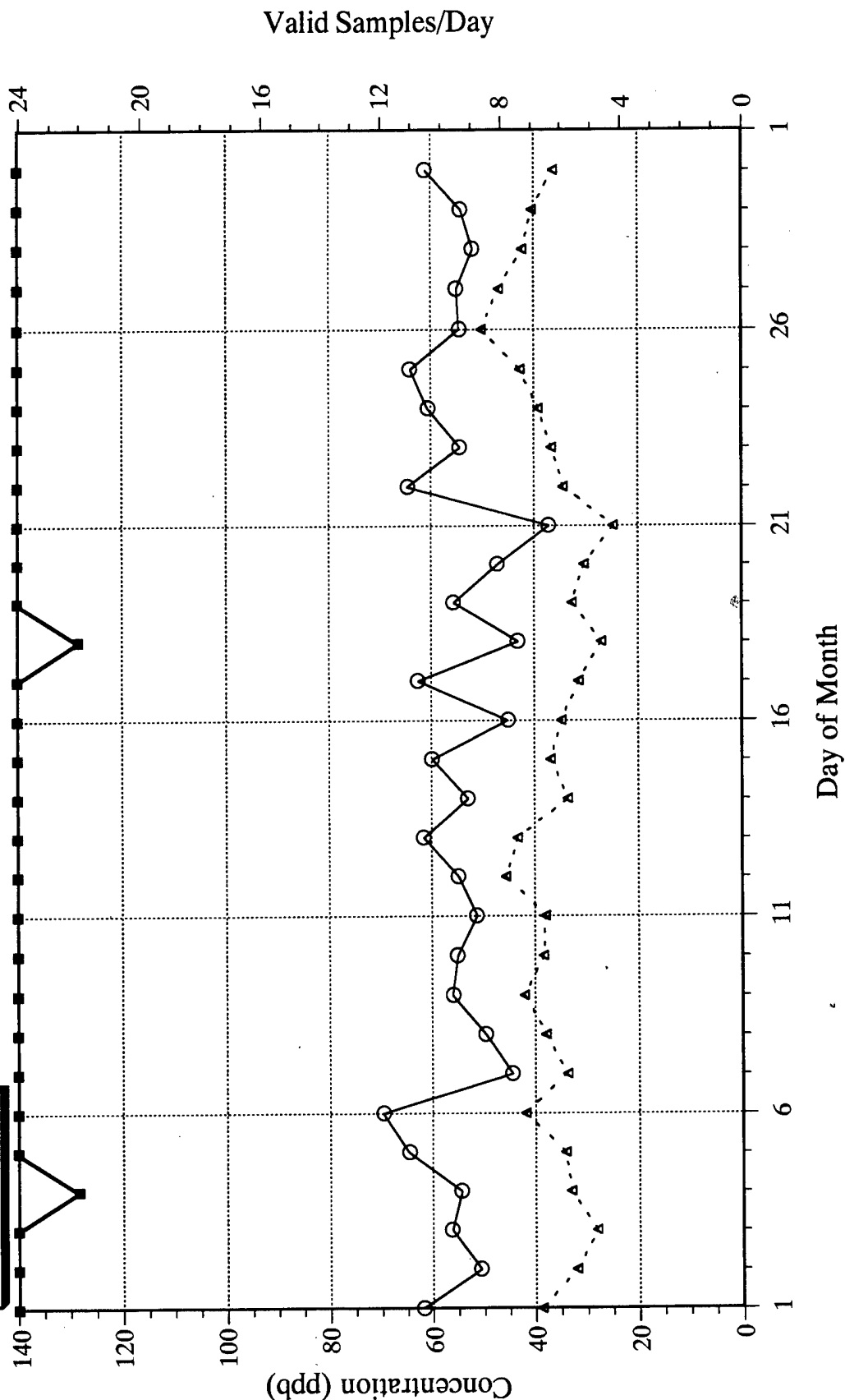


# Ozone

## April 1991

---△--- Mean  
 —○— Maximum

—■— Valid Samples/Day

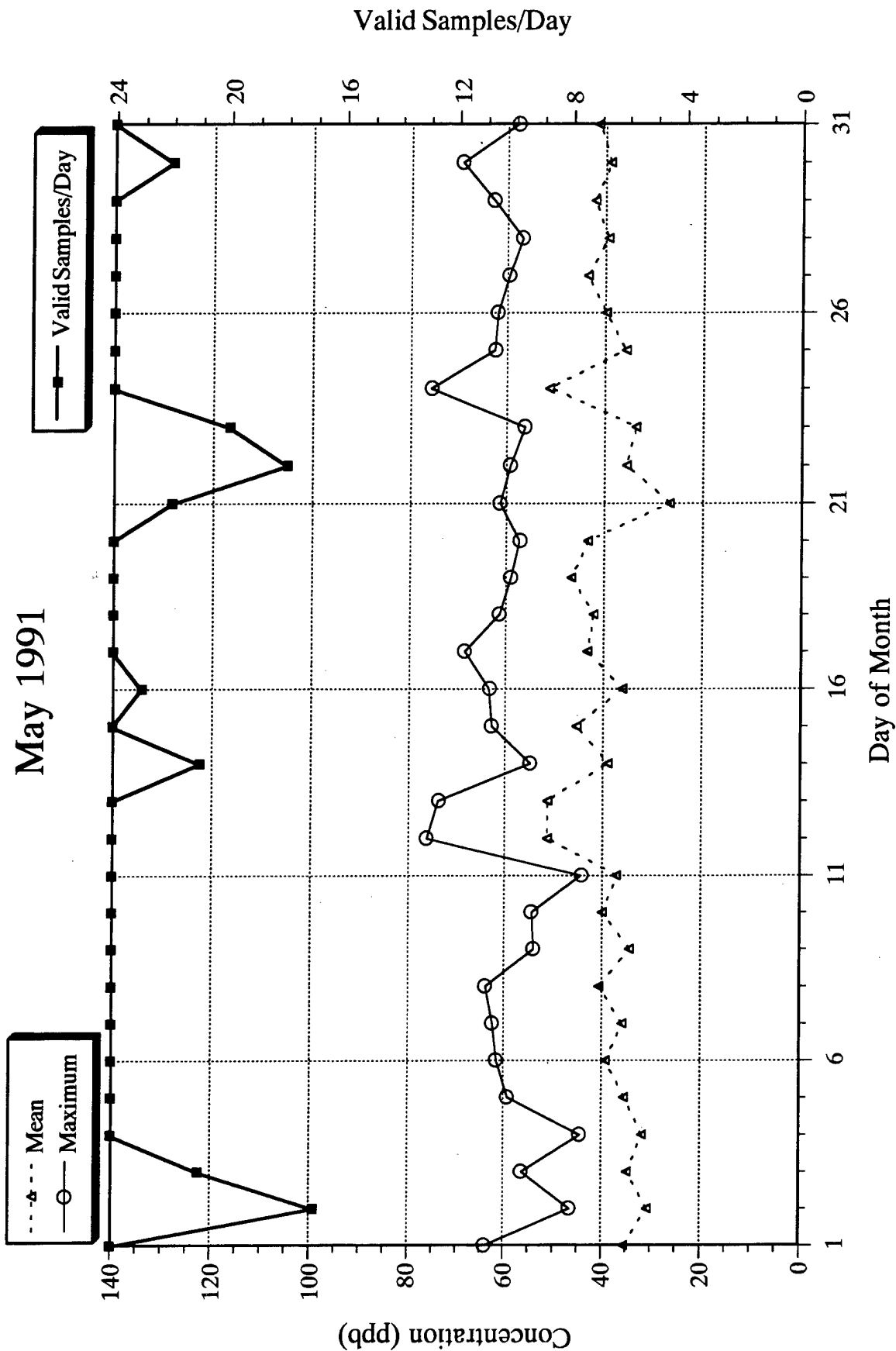


RMA-CAQMMP Ozone Concentrations for  
 April 1991



# Ozone

## May 1991



RMA-CAQMMP Ozone Concentrations for  
May 1991

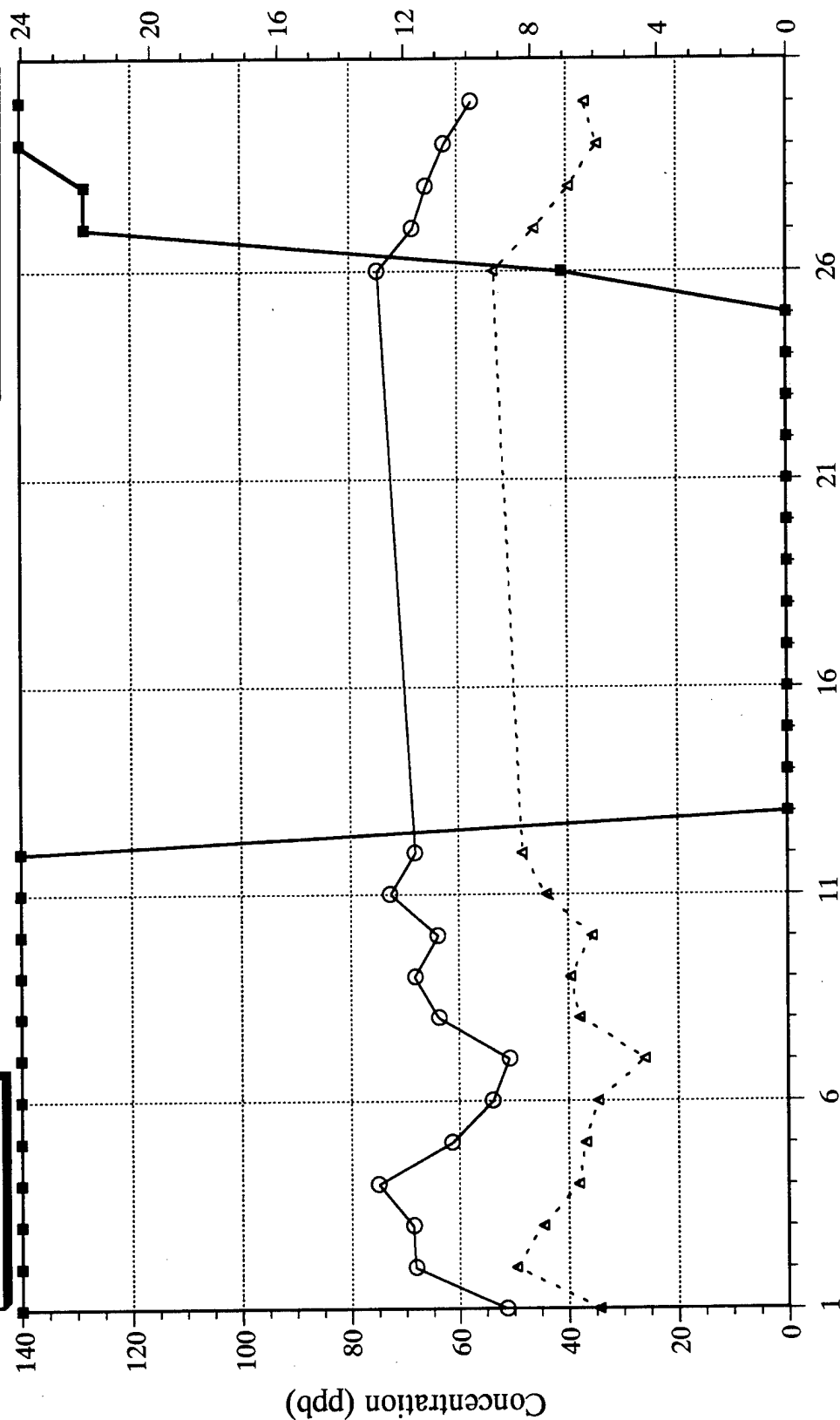


# Ozone

## June 1991

---△--- Mean  
 —○— Maximum

—■— Valid Samples/Day



RMA-CAQMMP Ozone Concentrations for

June 1991

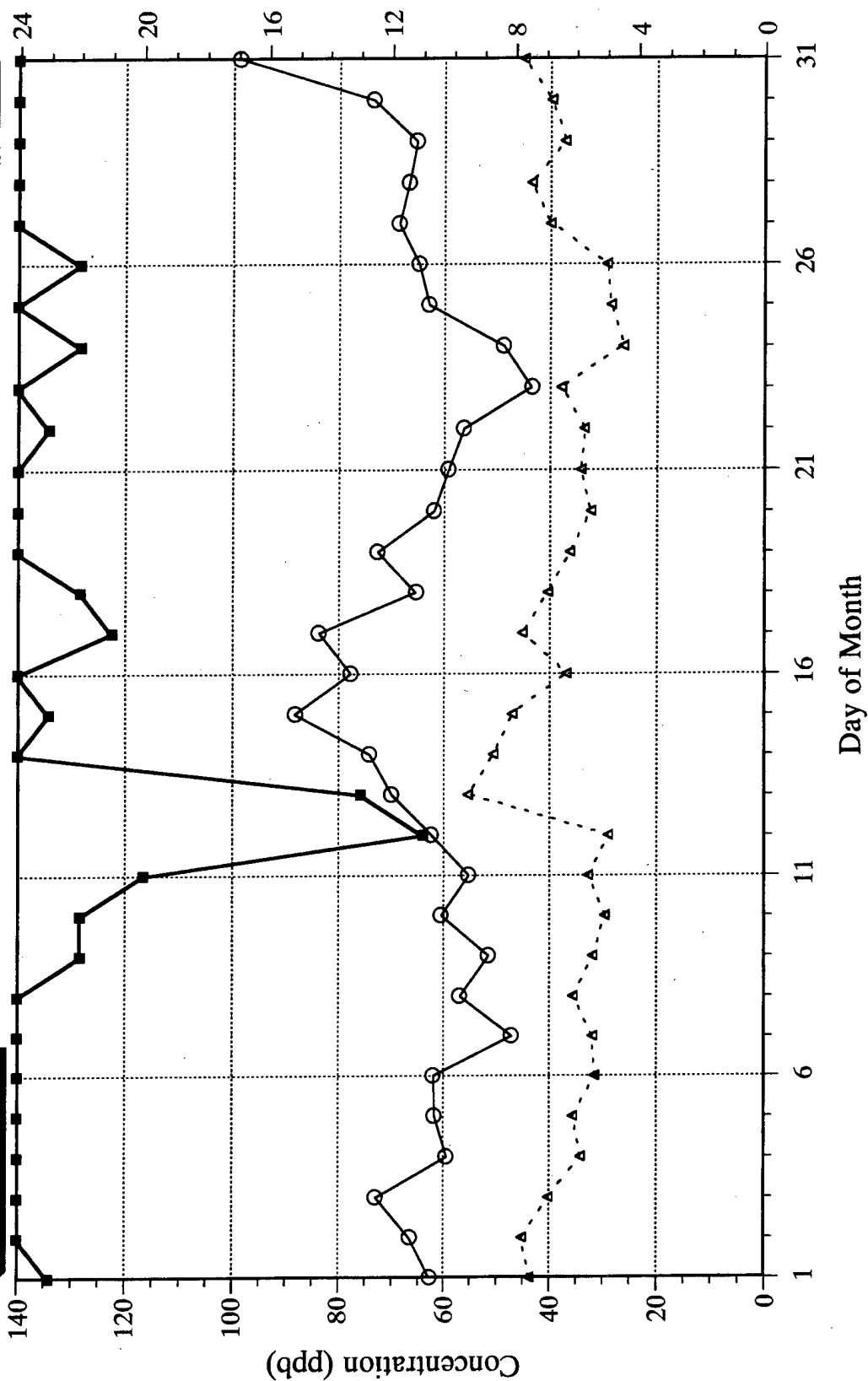


# Ozone

## July 1991

---▲--- Mean  
—○— Maximum

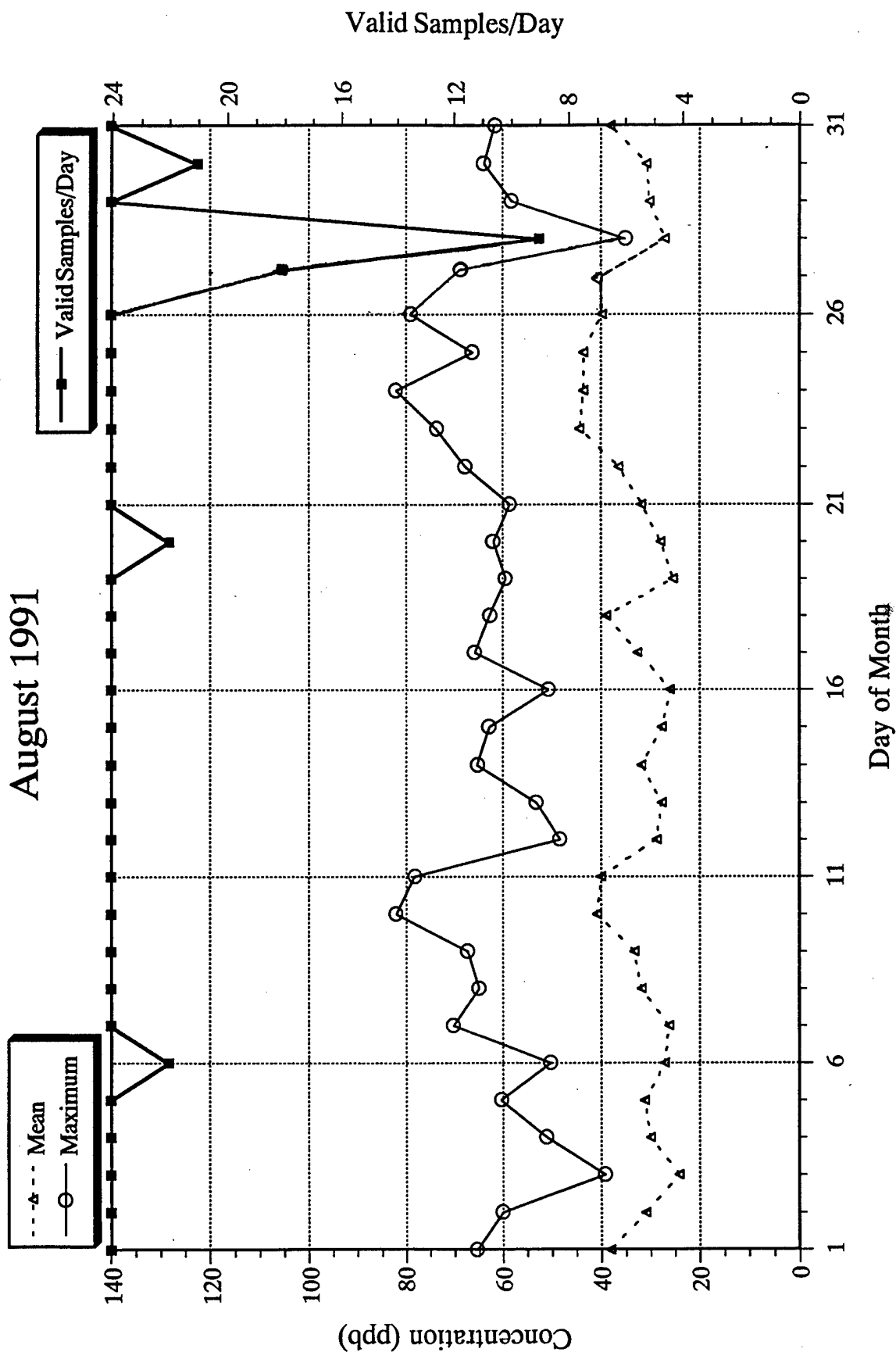
Valid Samples/Day



RMA-CAQMMP Ozone Concentrations for  
July 1991

# Ozone

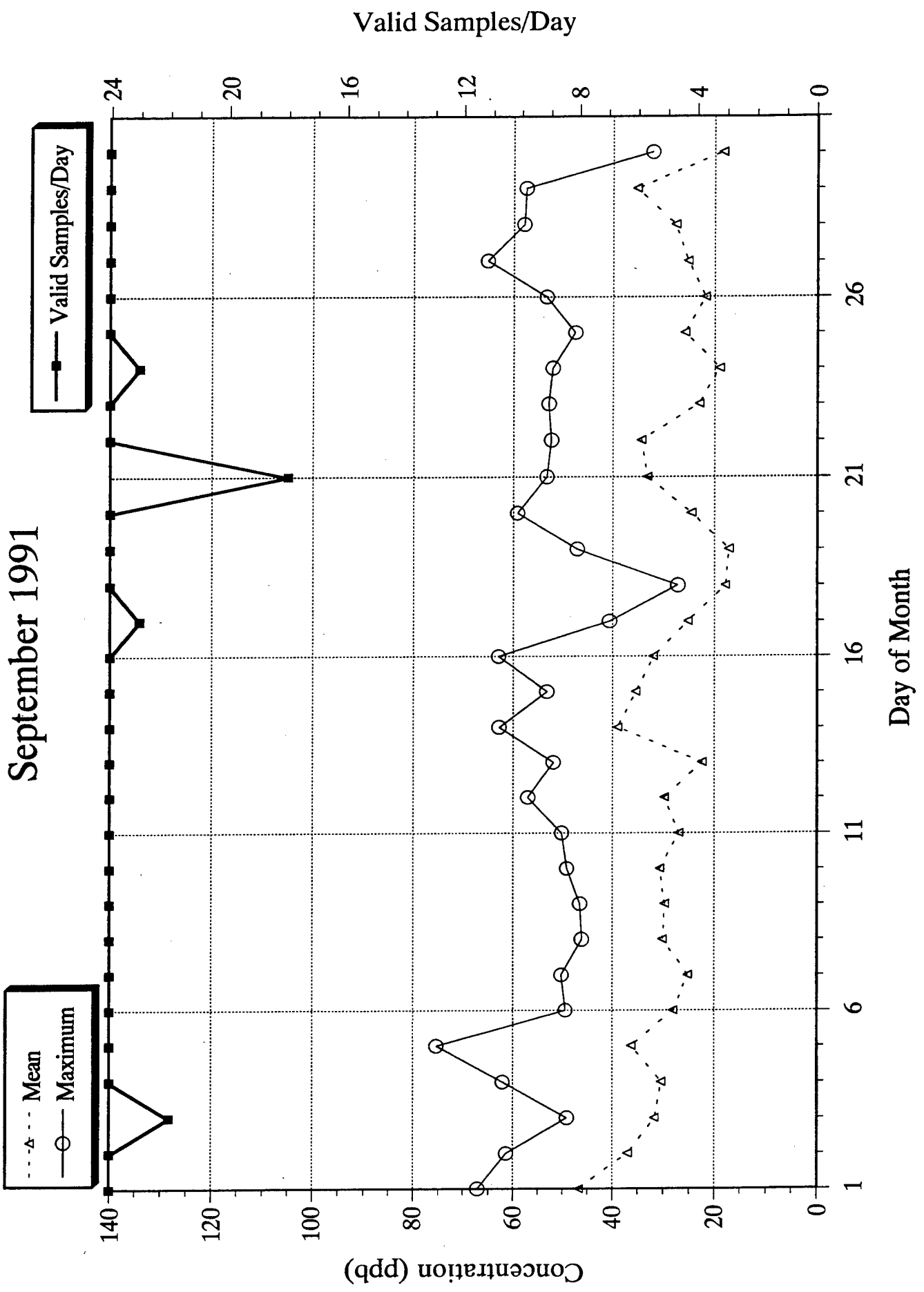
## August 1991



RMA-CAQMMP Ozone Concentrations for  
August 1991

# Ozone

## September 1991



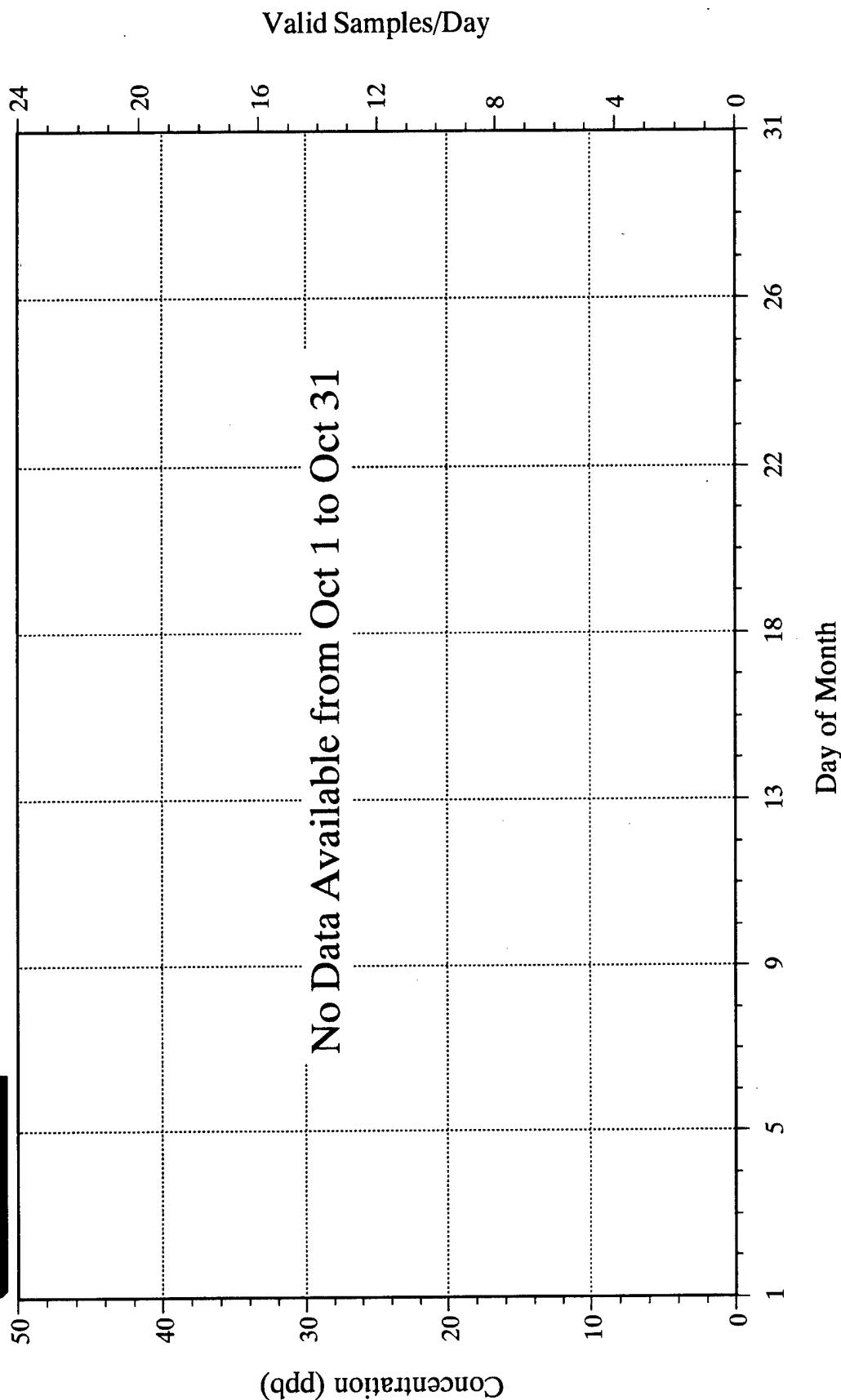
H3 SULFUR DIOXIDE (SO<sub>2</sub>)

# Sulfur Dioxide

October 1990

---▲--- Mean  
---○--- Maximum

---■--- Valid Samples/Day



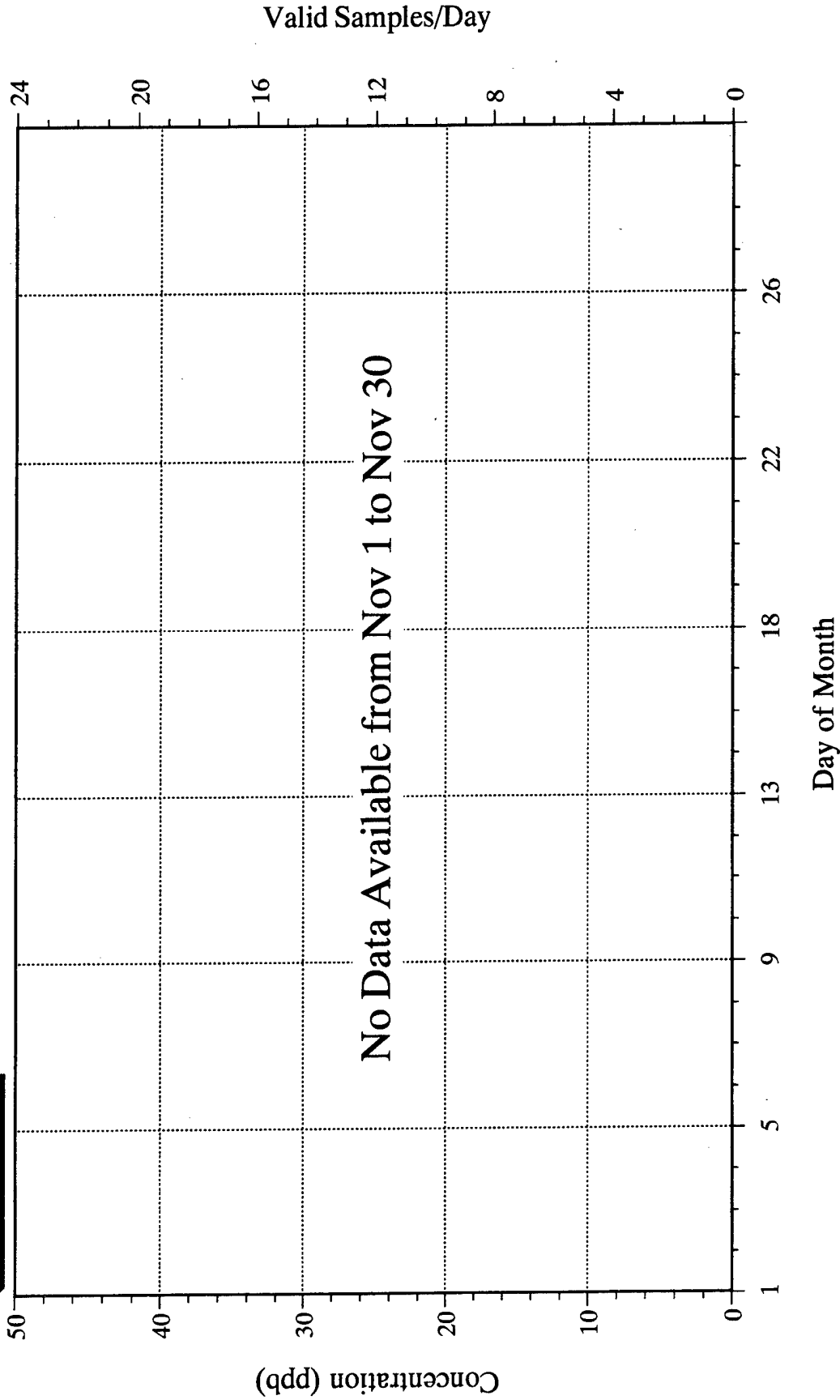
RMA-CAQMMP Sulfur Dioxide  
Concentrations for October 1990

# Sulfur Dioxide

November 1990

---▲--- Mean  
—○— Maximum

—■— Valid Samples/Day



RMA-CAQMMP Sulfur Dioxide

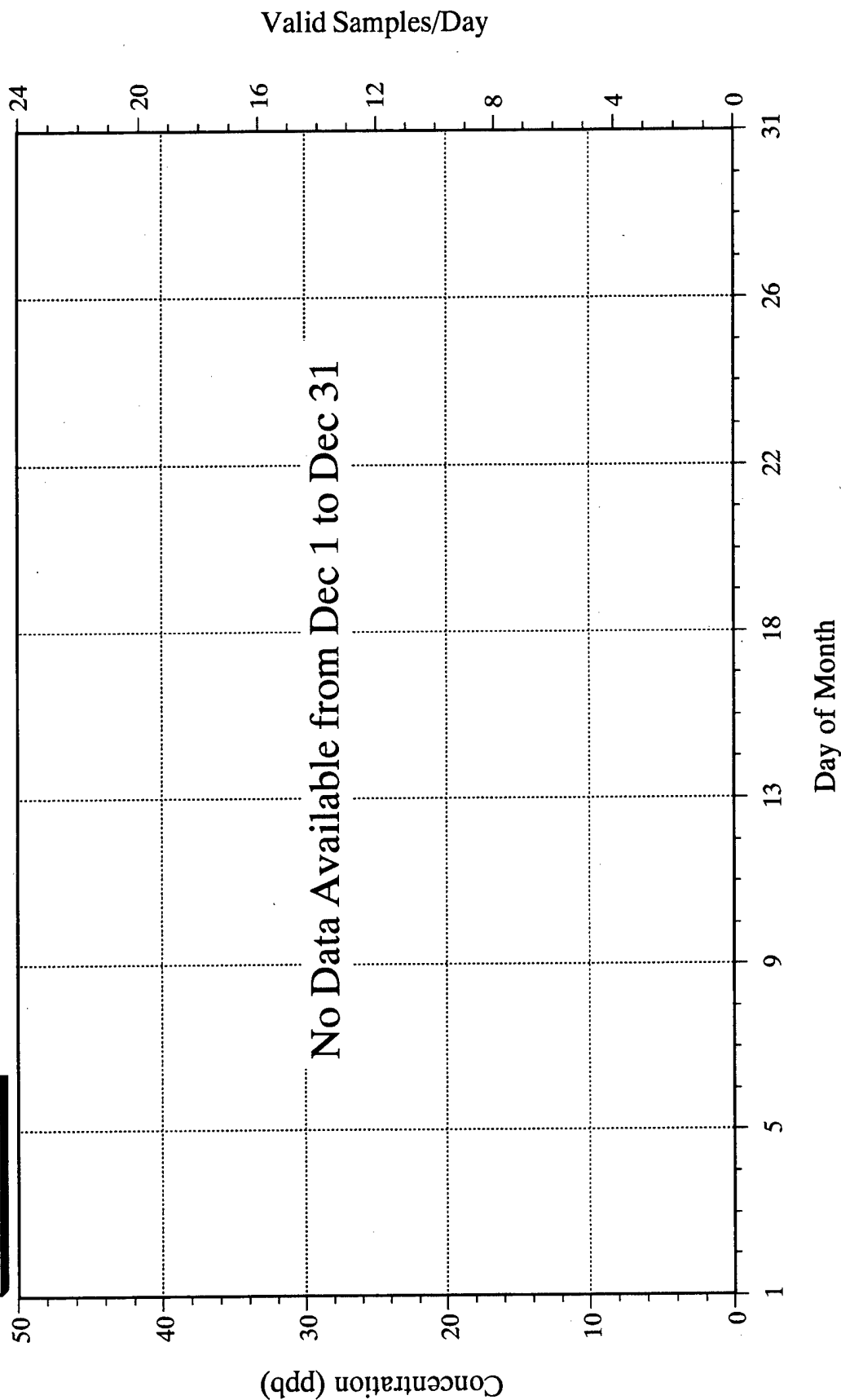
Concentrations for November 1990

# Sulfur Dioxide

December 1990

--- Mean  
--- Maximum

--- Valid Samples/Day



RMA-CAQMMP Sulfur Dioxide

Concentrations for December 1990



# Sulfur Dioxide

January 1991

---▲--- Mean  
—○— Maximum

Concentration (ppb)

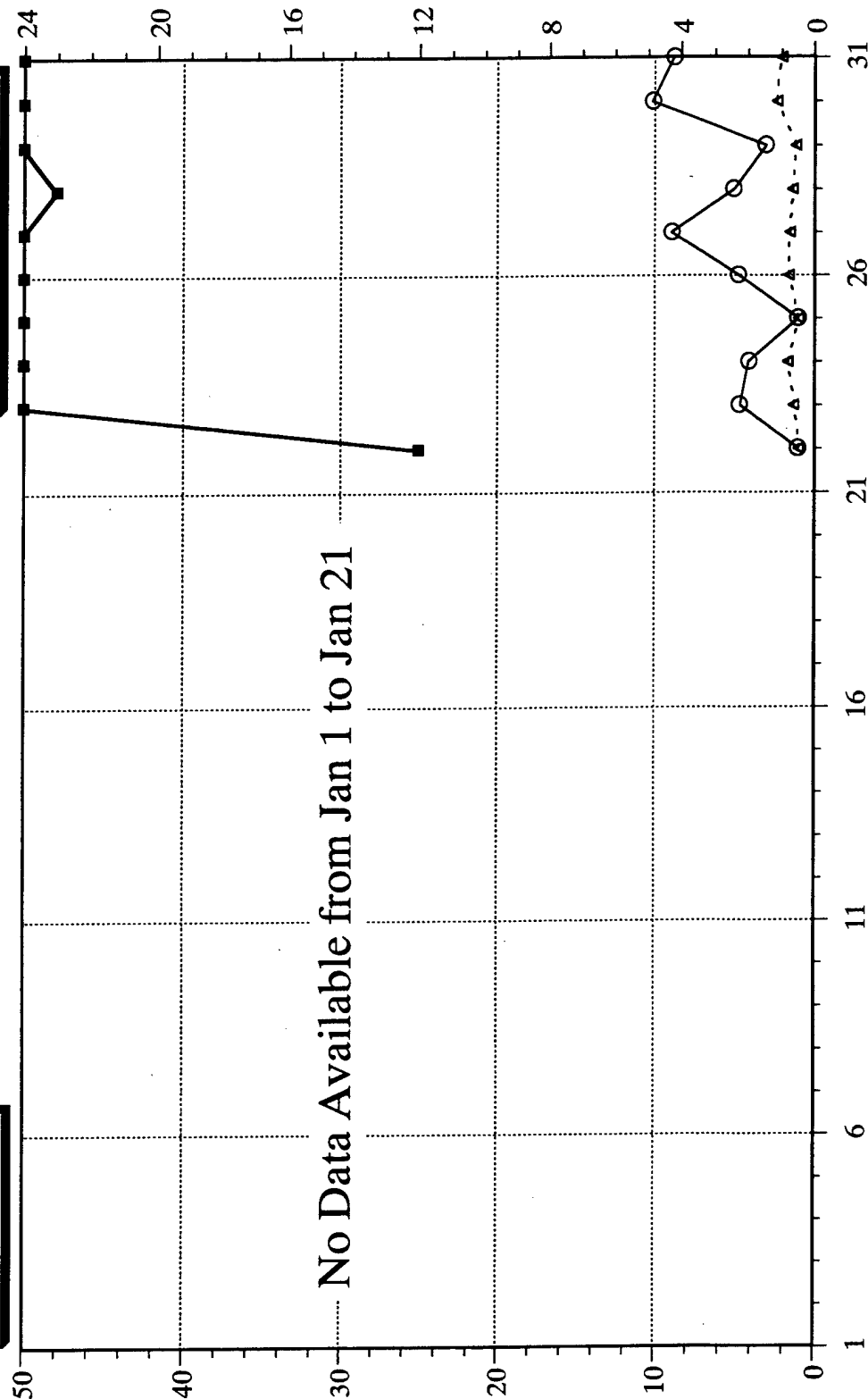
No Data Available from Jan 1 to Jan 21

—■— Valid Samples/Day

Valid Samples/Day

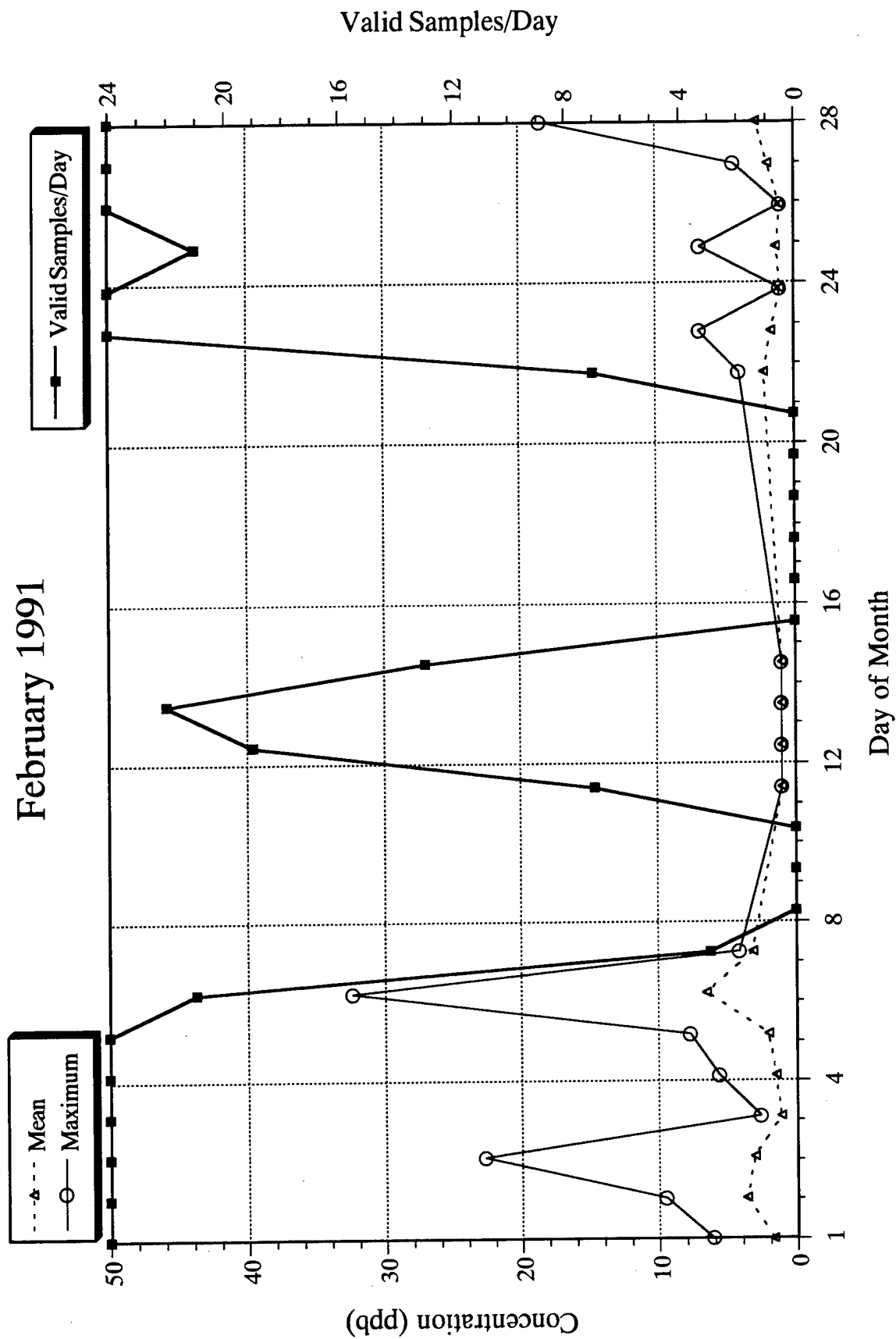
Day of Month

RMA-CAQMMP Sulfur Dioxide  
Concentrations for January 1991



# Sulfur Dioxide

February 1991

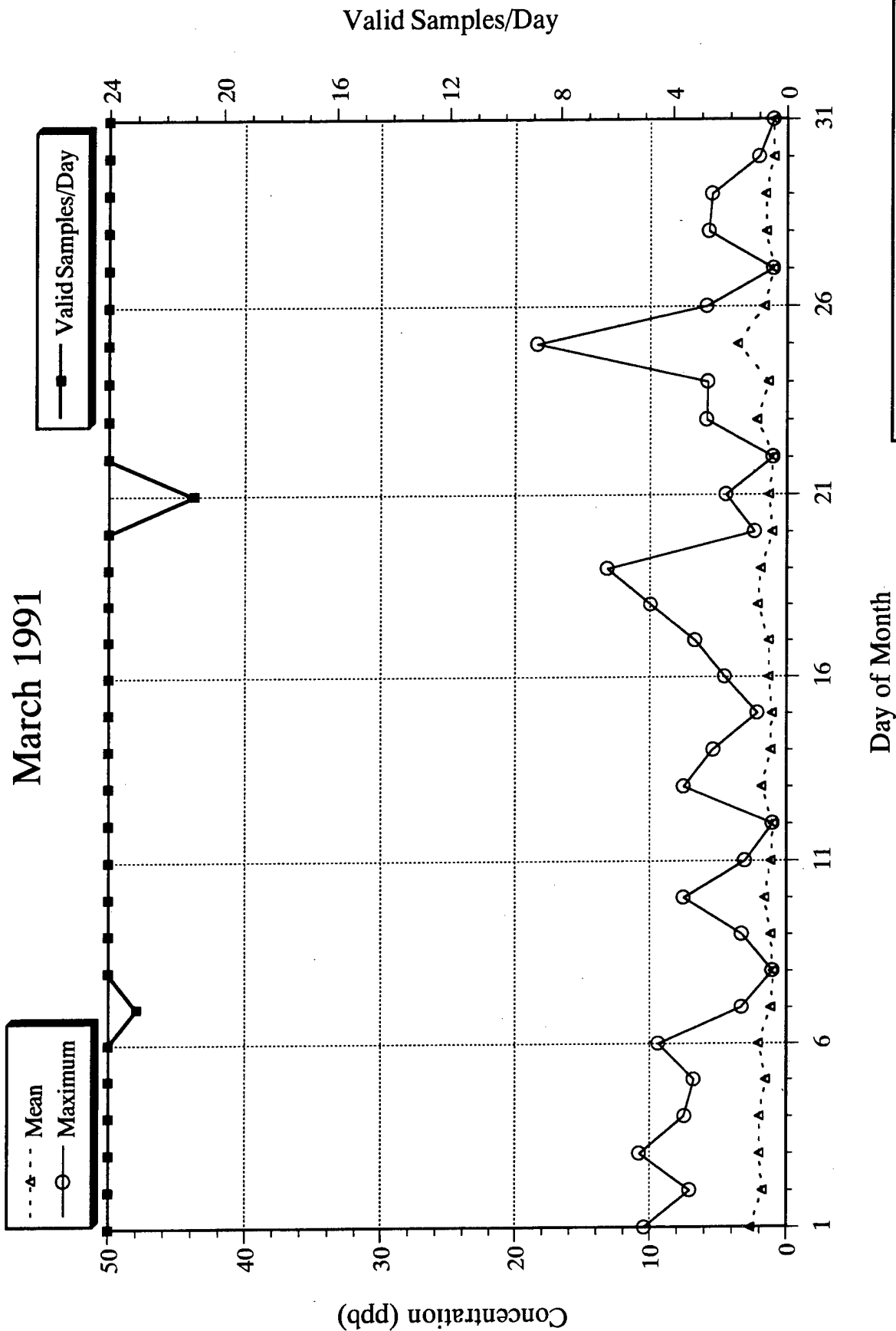


RMA-CAQMMP Sulfur Dioxide

Concentrations for February 1991

# Sulfur Dioxide

March 1991



RMA-CAQMMP Sulfur Dioxide  
Concentrations for March 1991

# Sulfur Dioxide

April 1991

---△--- Mean  
—○— Maximum

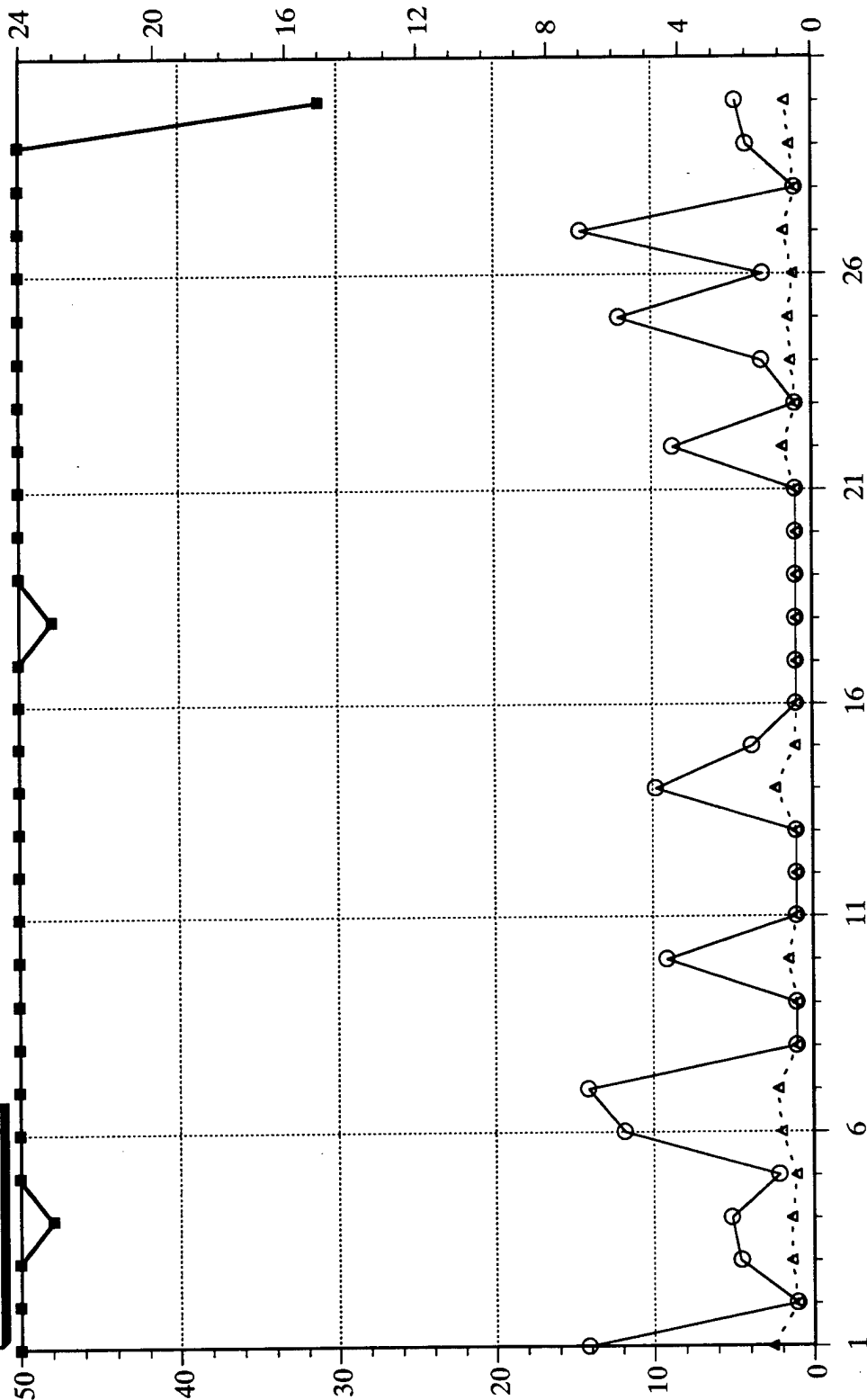
—■— Valid Samples/Day

Concentration (ppb)

Valid Samples/Day

Day of Month

RMA-CAQMMP Sulfur Dioxide  
Concentrations for April 1991

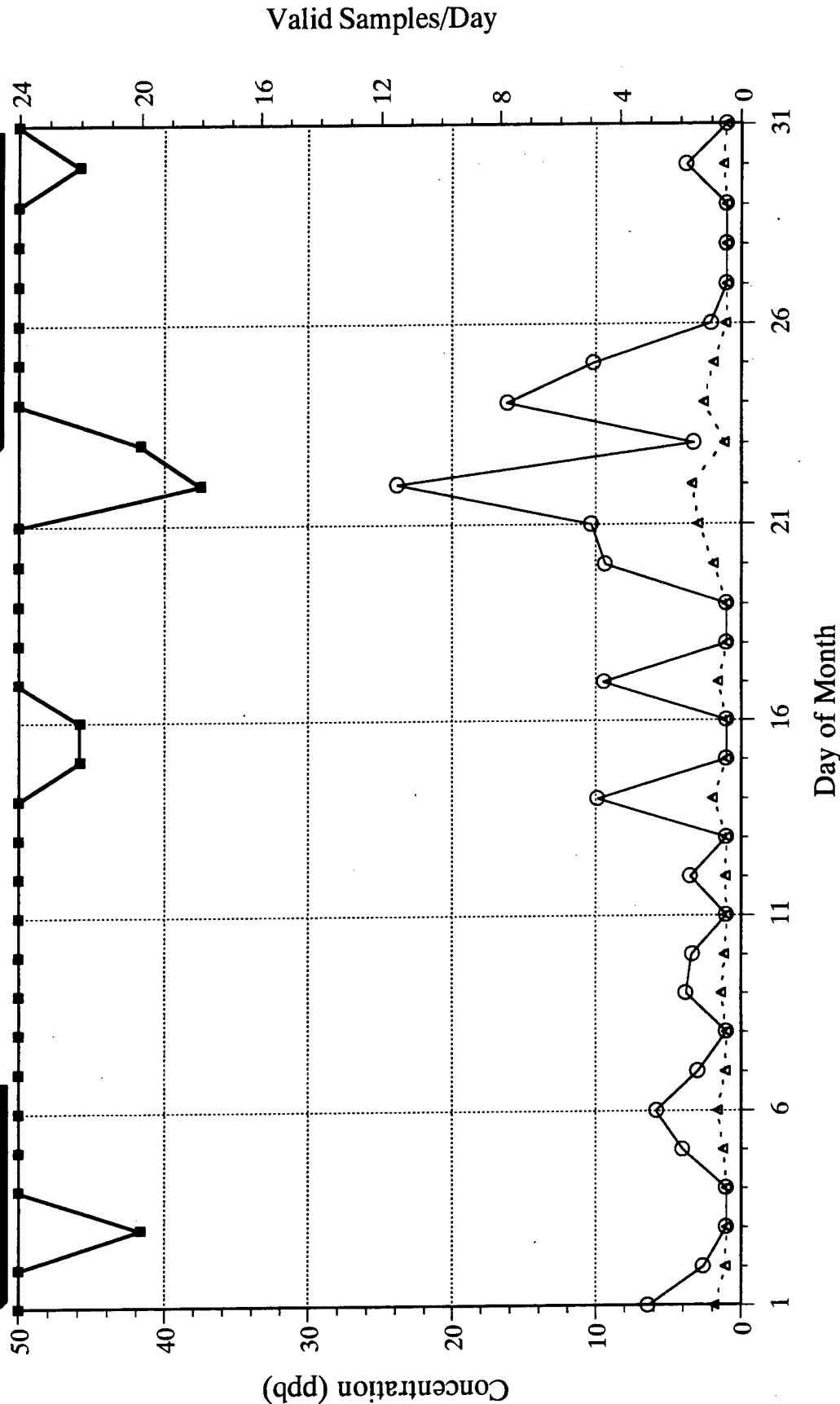


# Sulfur Dioxide

May 1991

---▲--- Mean  
—○— Maximum

—■— Valid Samples/Day



RMA-CAQMMP Sulfur Dioxide  
Concentrations for May 1991



# Sulfur Dioxide

June 1991

---▲--- Mean  
—○— Maximum

—■— Valid Samples/Day

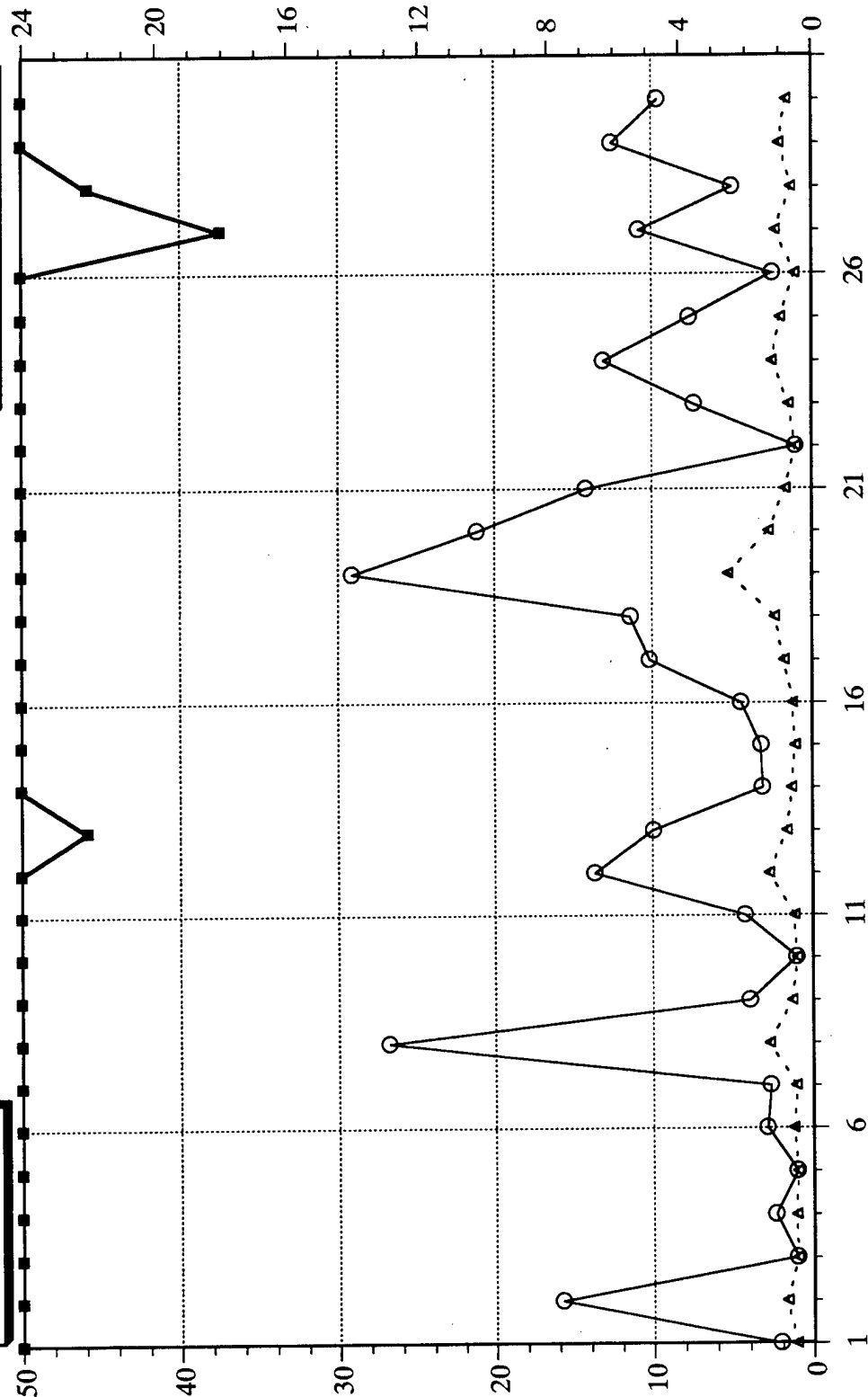
Concentration (ppb)

Valid Samples/Day

Day of Month

RMA-CAQMMP Sulfur Dioxide

Concentrations for June 1991



# Sulfur Dioxide

July 1991

---▲--- Mean  
—○— Maximum

—■— Valid Samples/Day

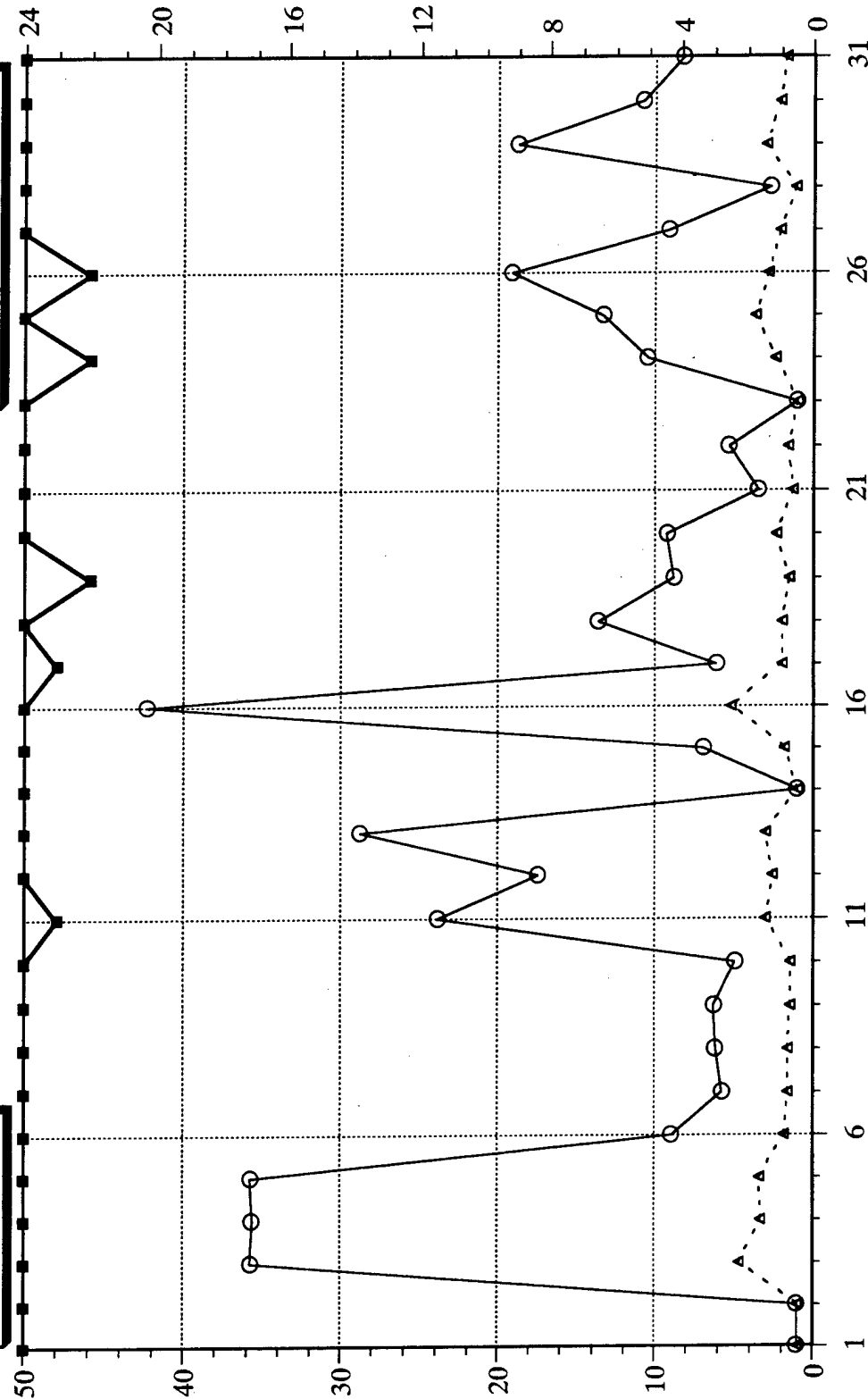
Concentration (ppb)

Valid Samples/Day

Day of Month

RMA-CAQMMP Sulfur Dioxide

Concentrations for July 1991



# Sulfur Dioxide

August 1991

---△--- Mean  
—○— Maximum

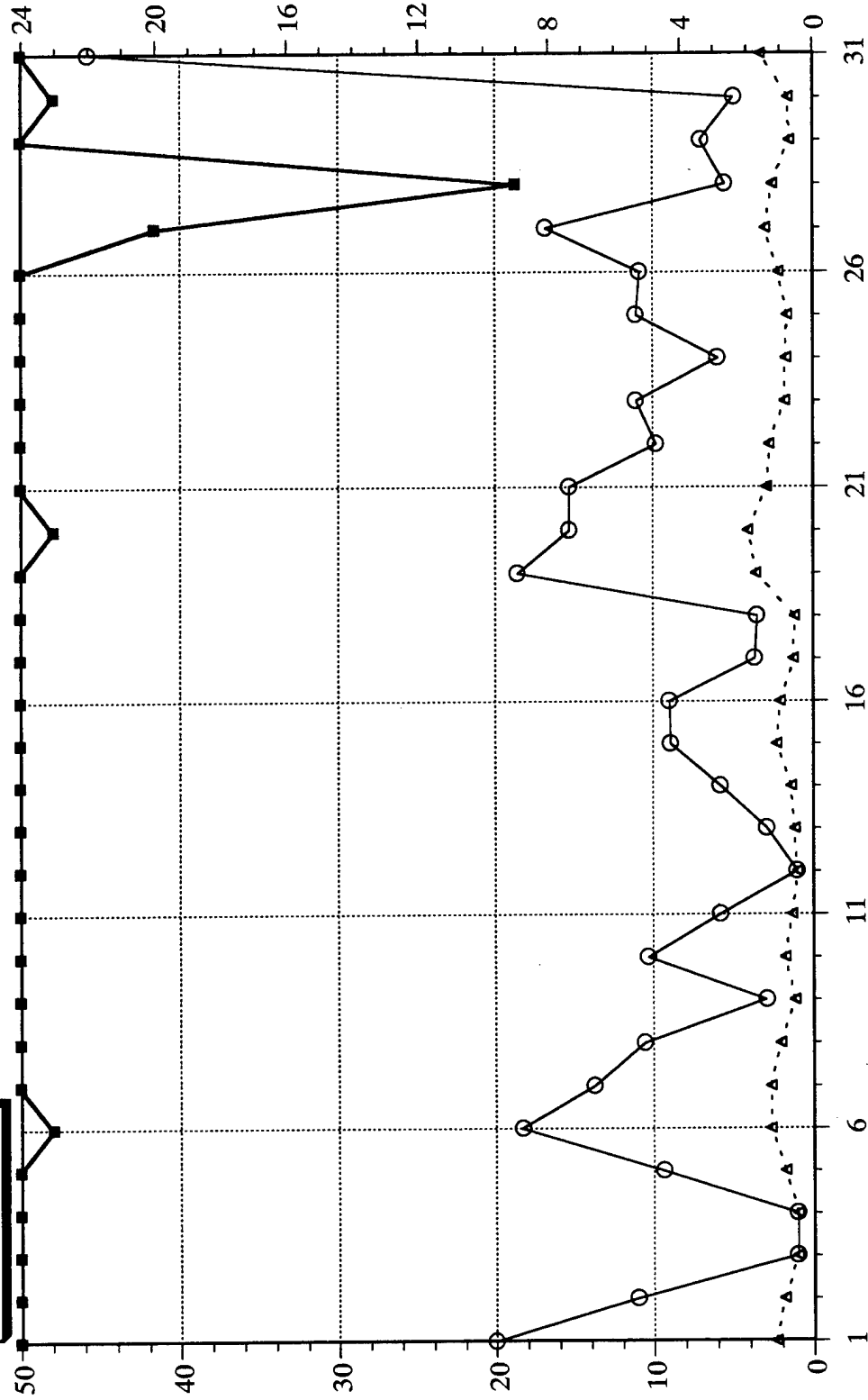
—■— Valid Samples/Day

Valid Samples/Day

Concentration (ppb)

Day of Month

RMA-CAQMMP Sulfur Dioxide  
Concentrations for August 1991





# Sulfur Dioxide

September 1991

---▲--- Mean  
—○— Maximum

—■— Valid Samples/Day

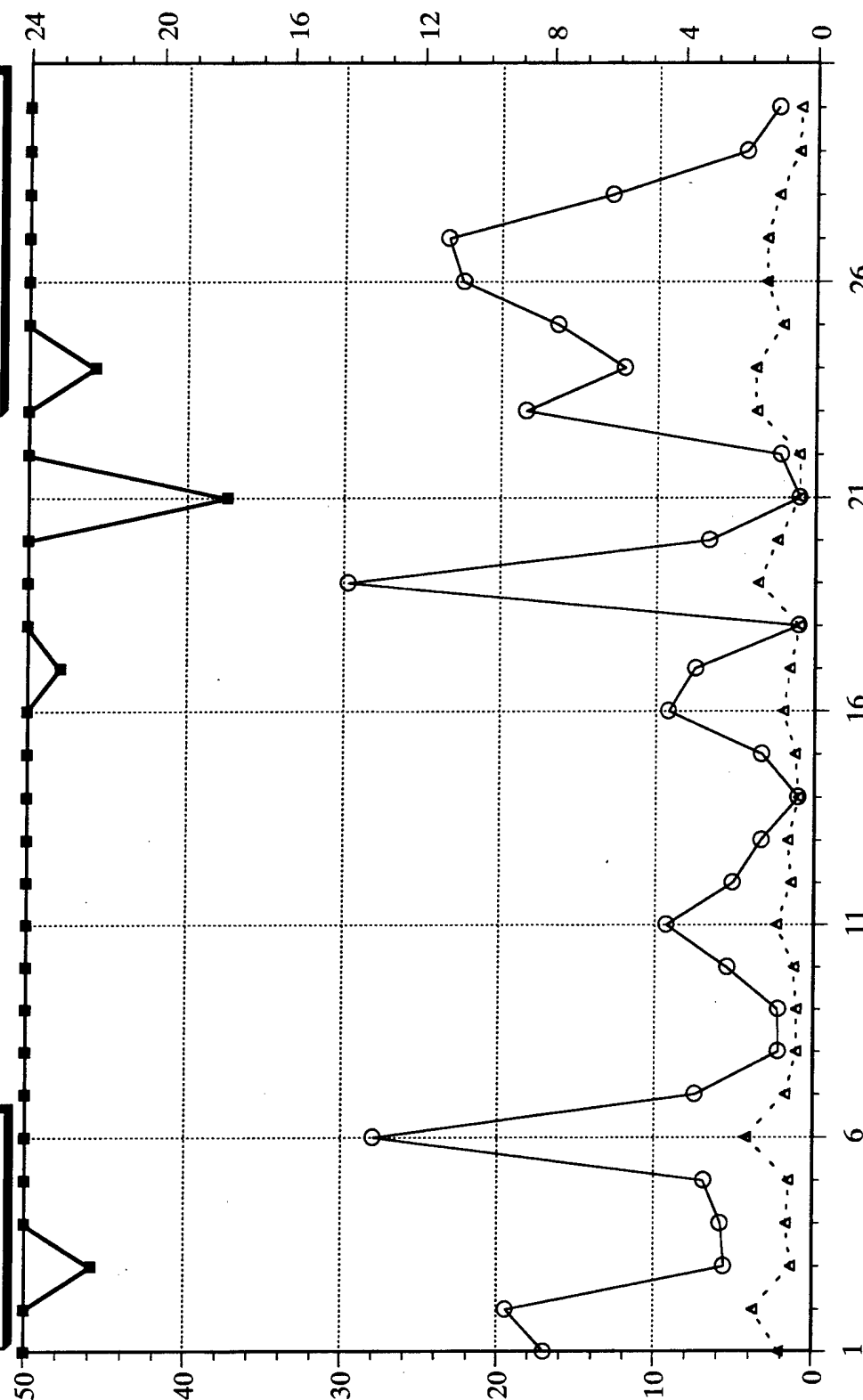
Concentration (ppb)

Valid Samples/Day

Day of Month

RMA-CAQMMP Sulfur Dioxide

Concentrations for September 1991



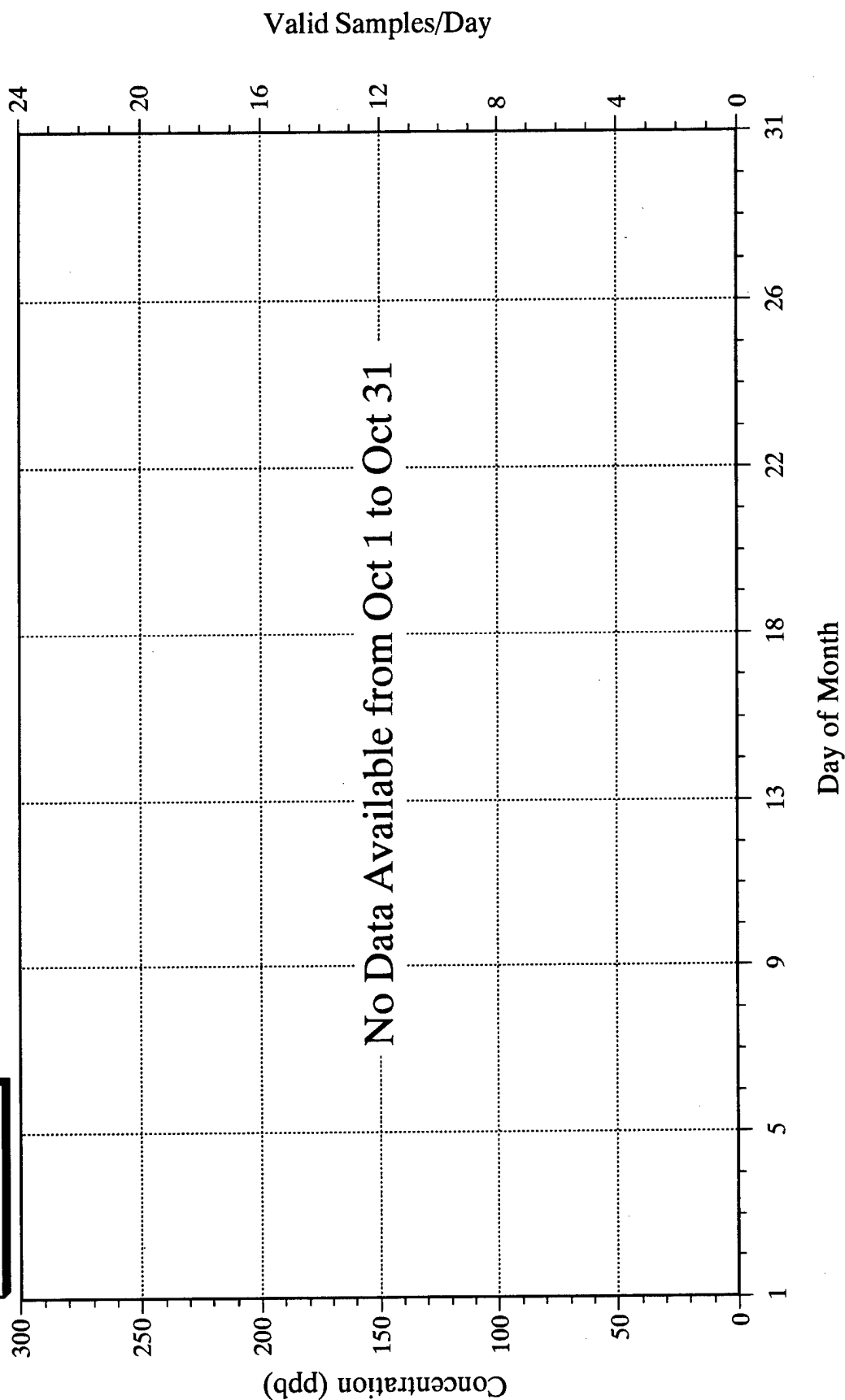
H4 NITRIC OXIDE (NO)

# Nitric Oxide

October 1990

---△--- Mean  
---○--- Maximum

---■--- Valid Samples/Day



RMA-CAQMMP Nitric Oxide

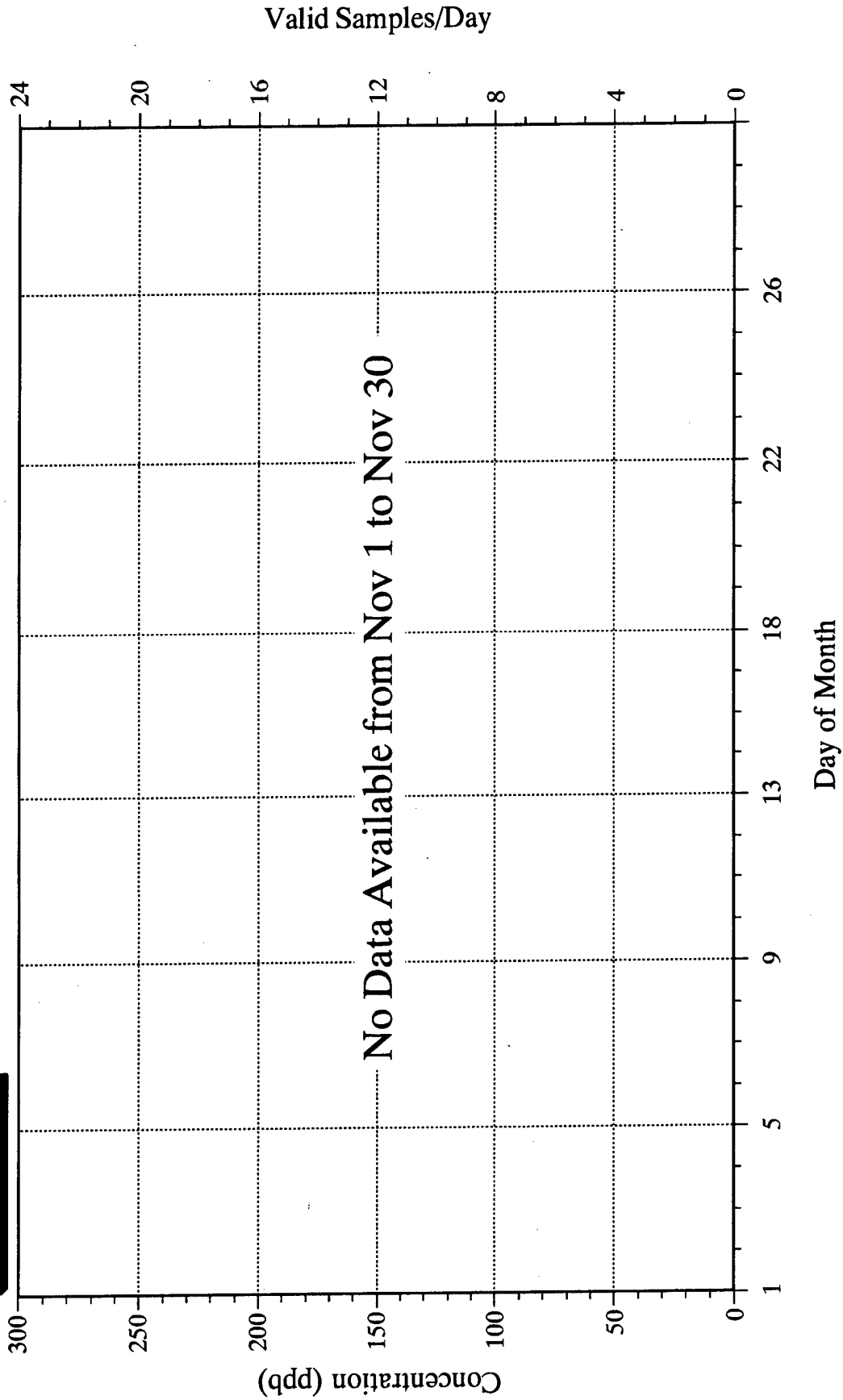
Concentrations for October 1990

# Nitric Oxide

November 1990

---▲--- Mean  
---○--- Maximum

---■--- Valid Samples/Day



RMA-CAQMMP Nitric Oxide

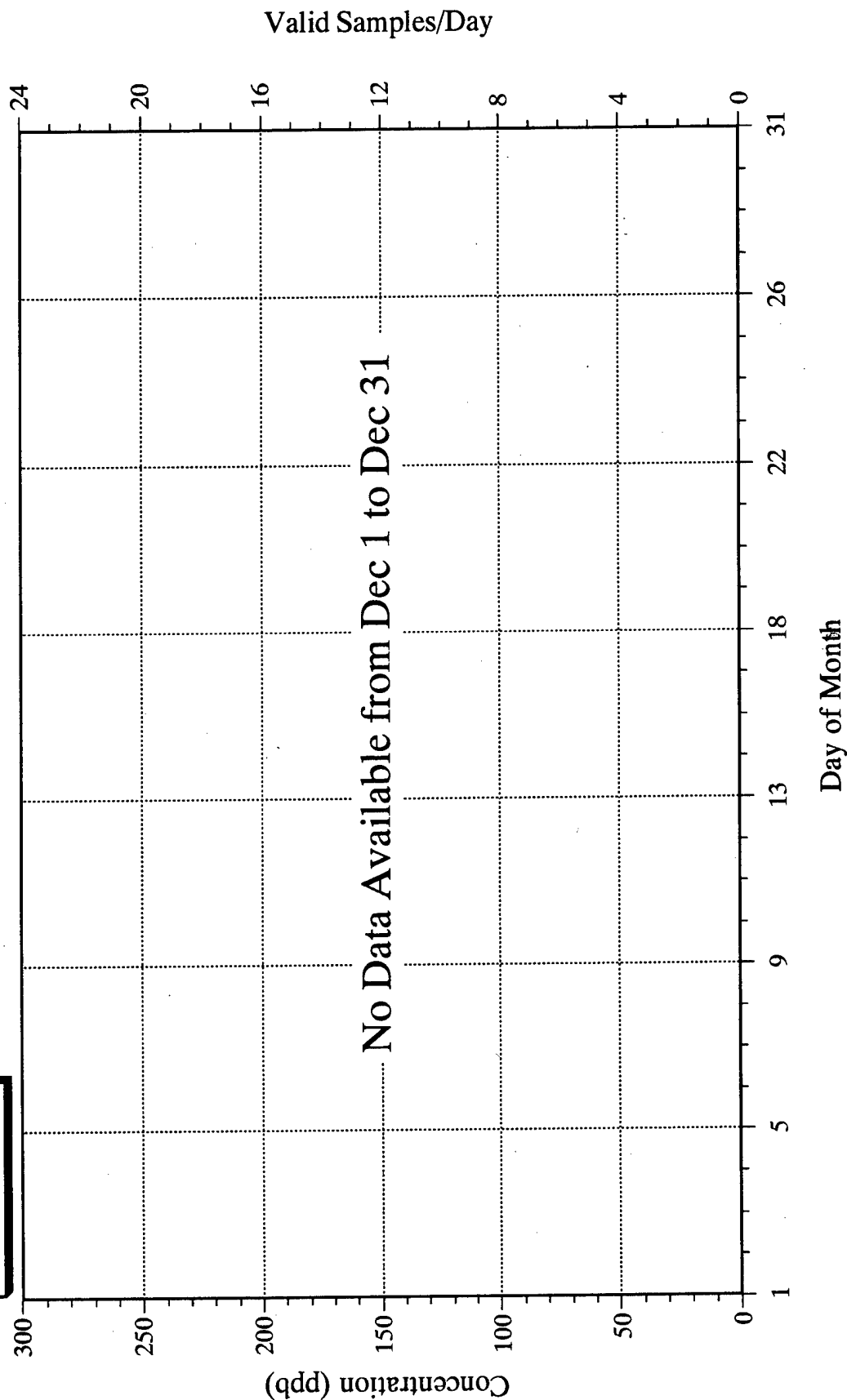
Concentrations for November 1990

# Nitric Oxide

## December 1990

---△--- Mean  
—○— Maximum

—■— Valid Samples/Day



RMA-CAQMMP Nitric Oxide

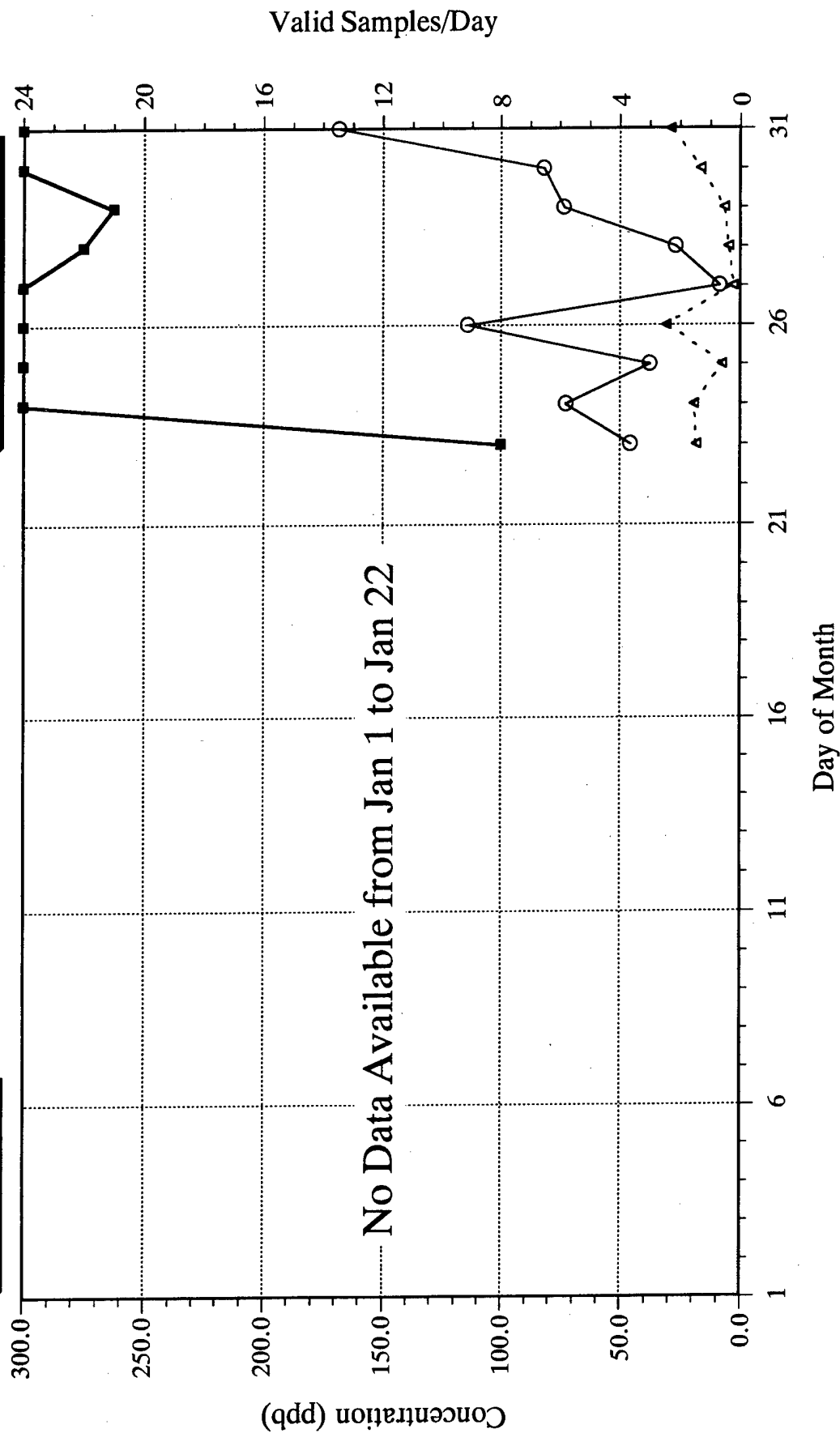
Concentrations for December 1990

# Nitric Oxide

January 1991

---△--- Mean  
—○— Maximum

—■— Valid Samples/Day

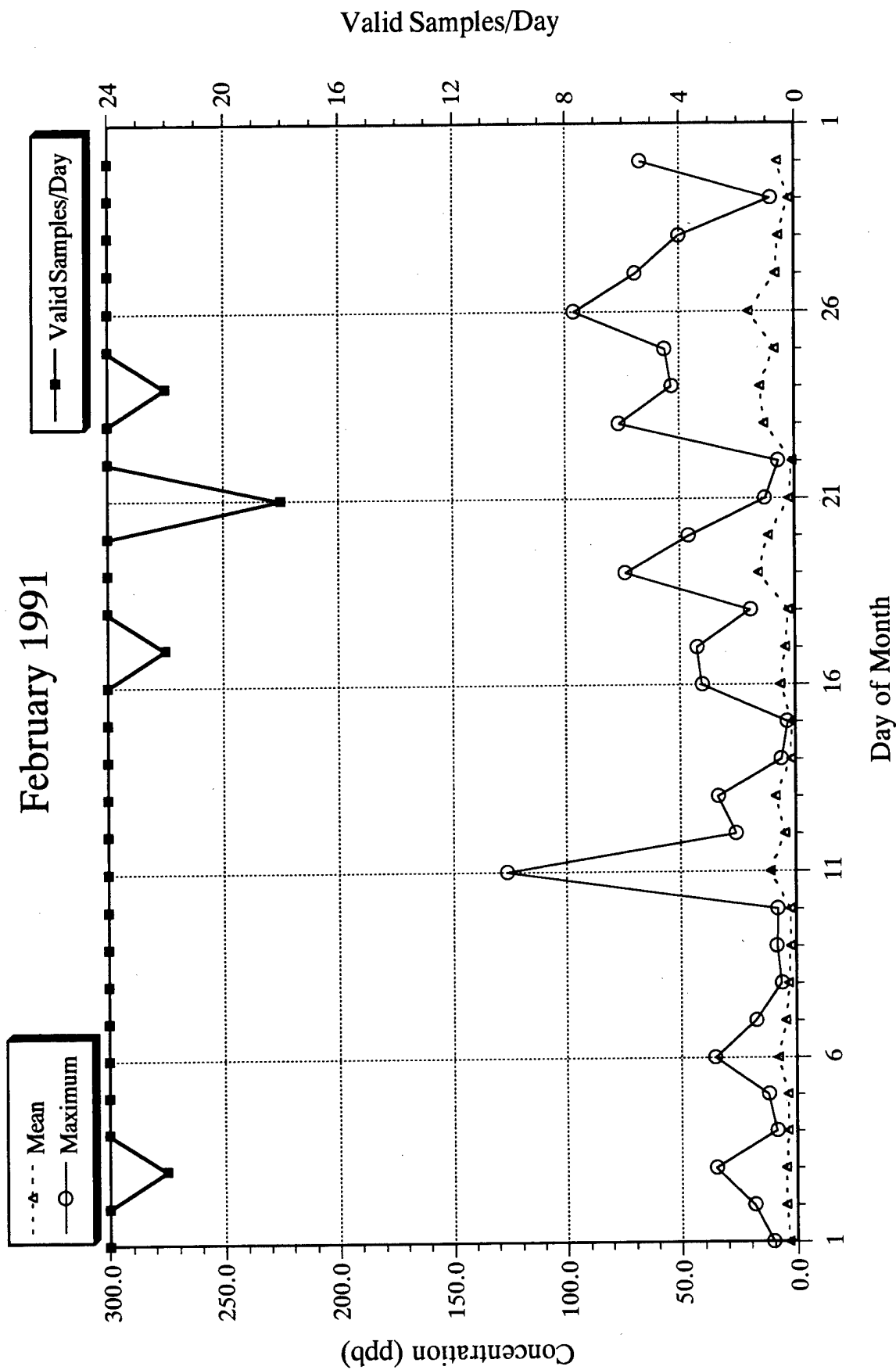


RMA-CAQMMP Nitric Oxide

Concentrations for January 1991

# Nitric Oxide

February 1991

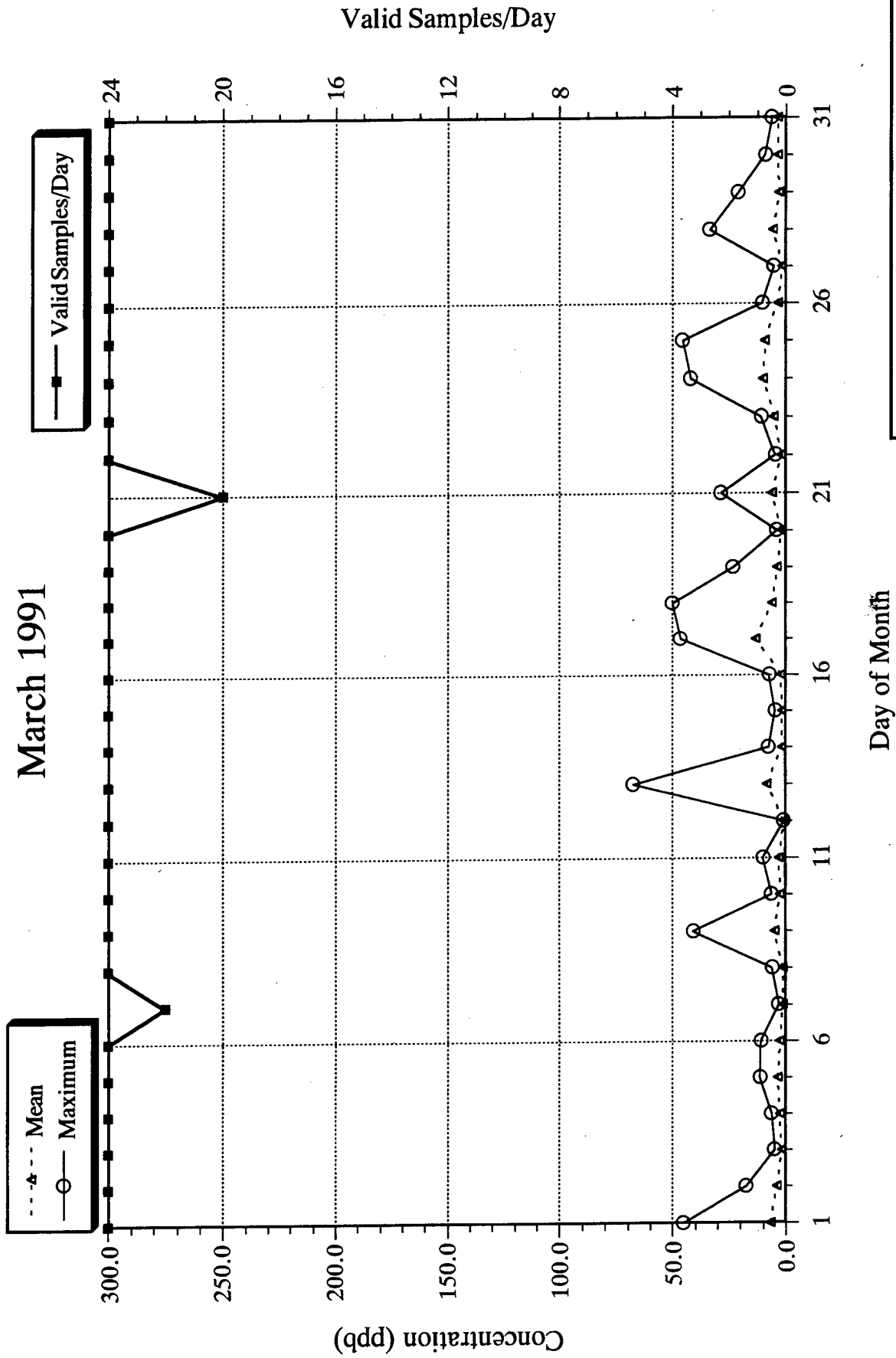


RMA-CAQMMP Nitric Oxide

Concentrations for February 1991

# Nitric Oxide

March 1991



RMA-CAQMMP Nitric Oxide  
Concentrations for March 1991

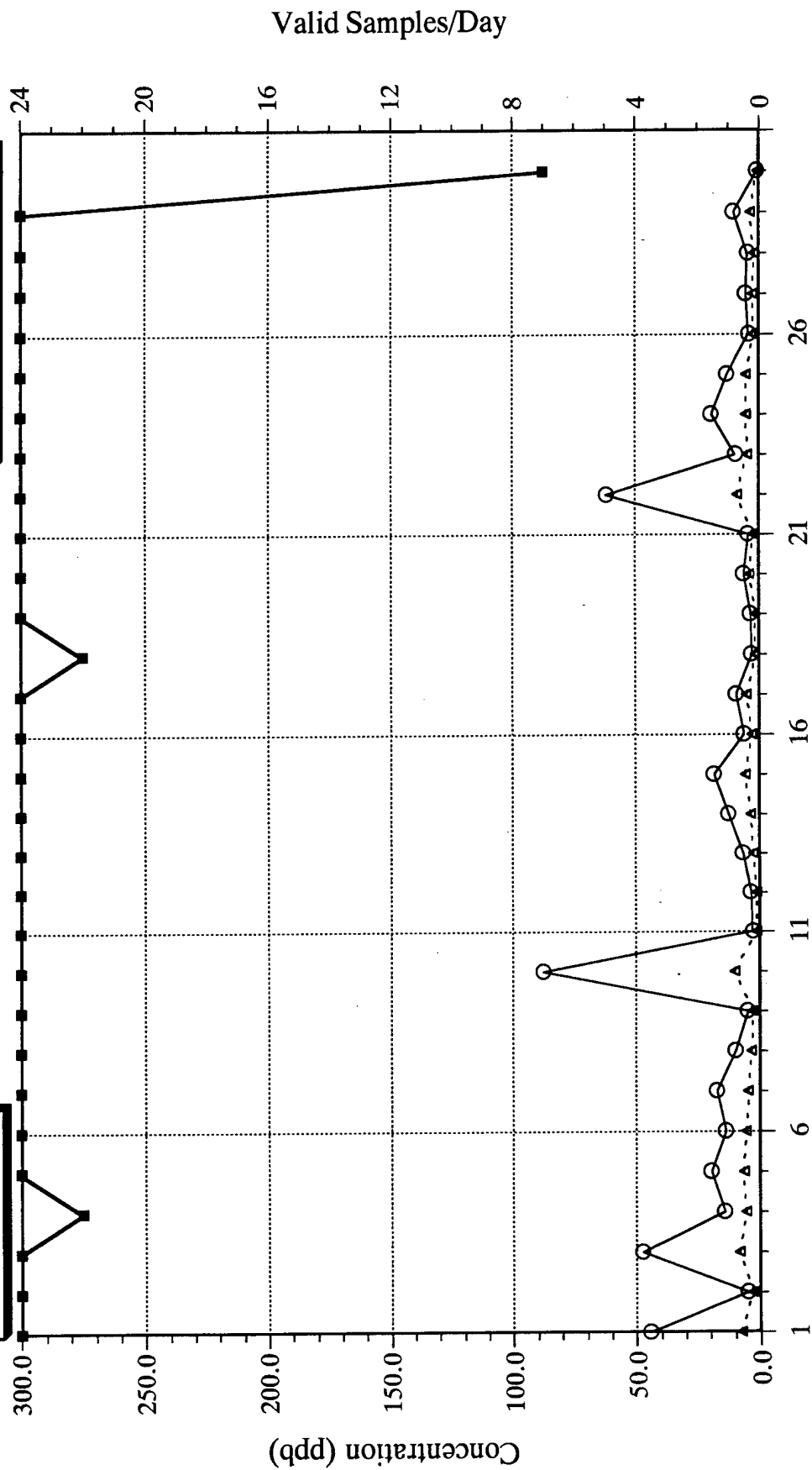


# Nitric Oxide

April 1991

---△--- Mean  
 —○— Maximum

—■— Valid Samples/Day



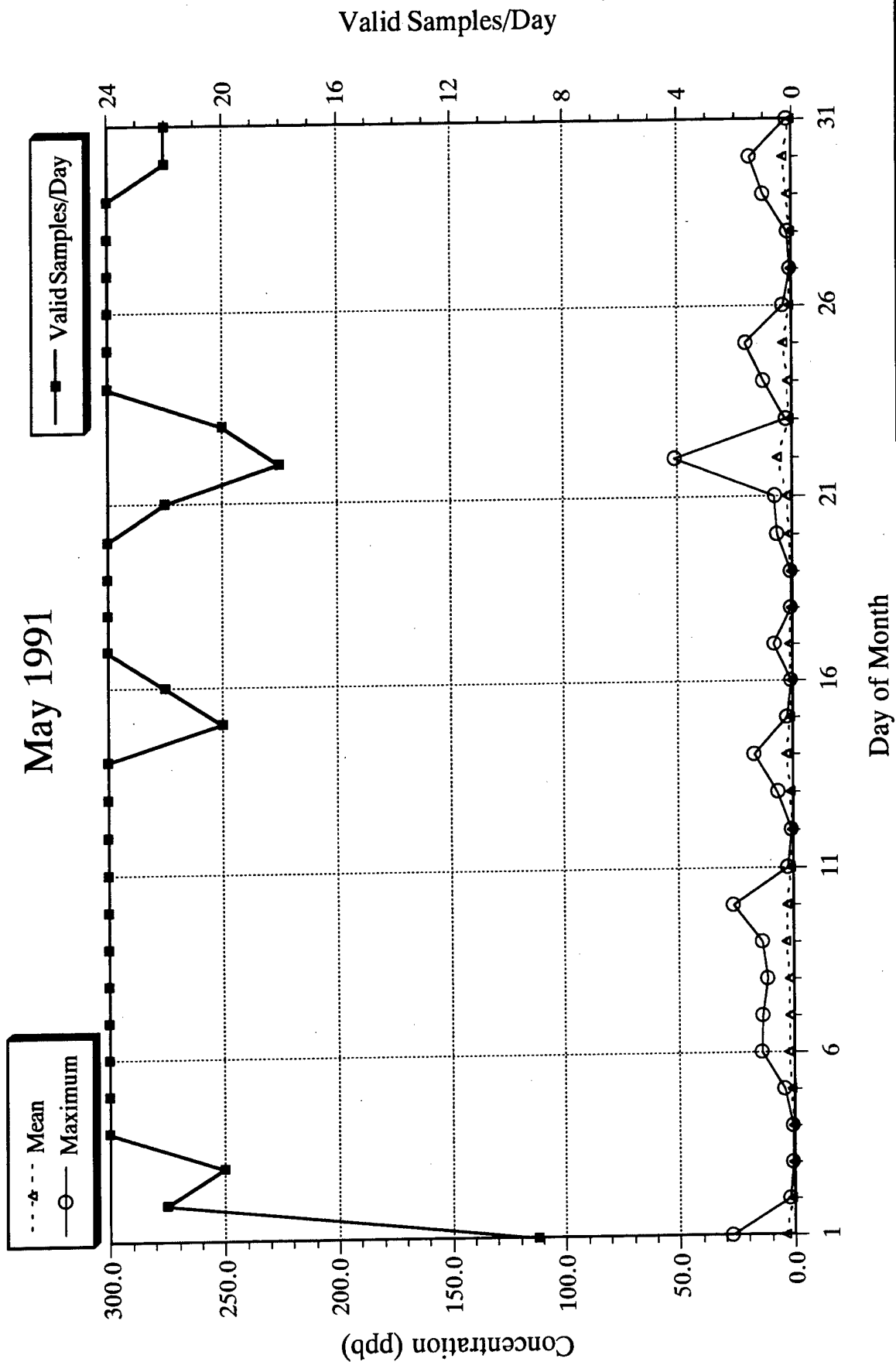
Day of Month

RMA-CAQMMP Nitric Oxide  
 Concentrations for April 1991



## Nitric Oxide

May 1991



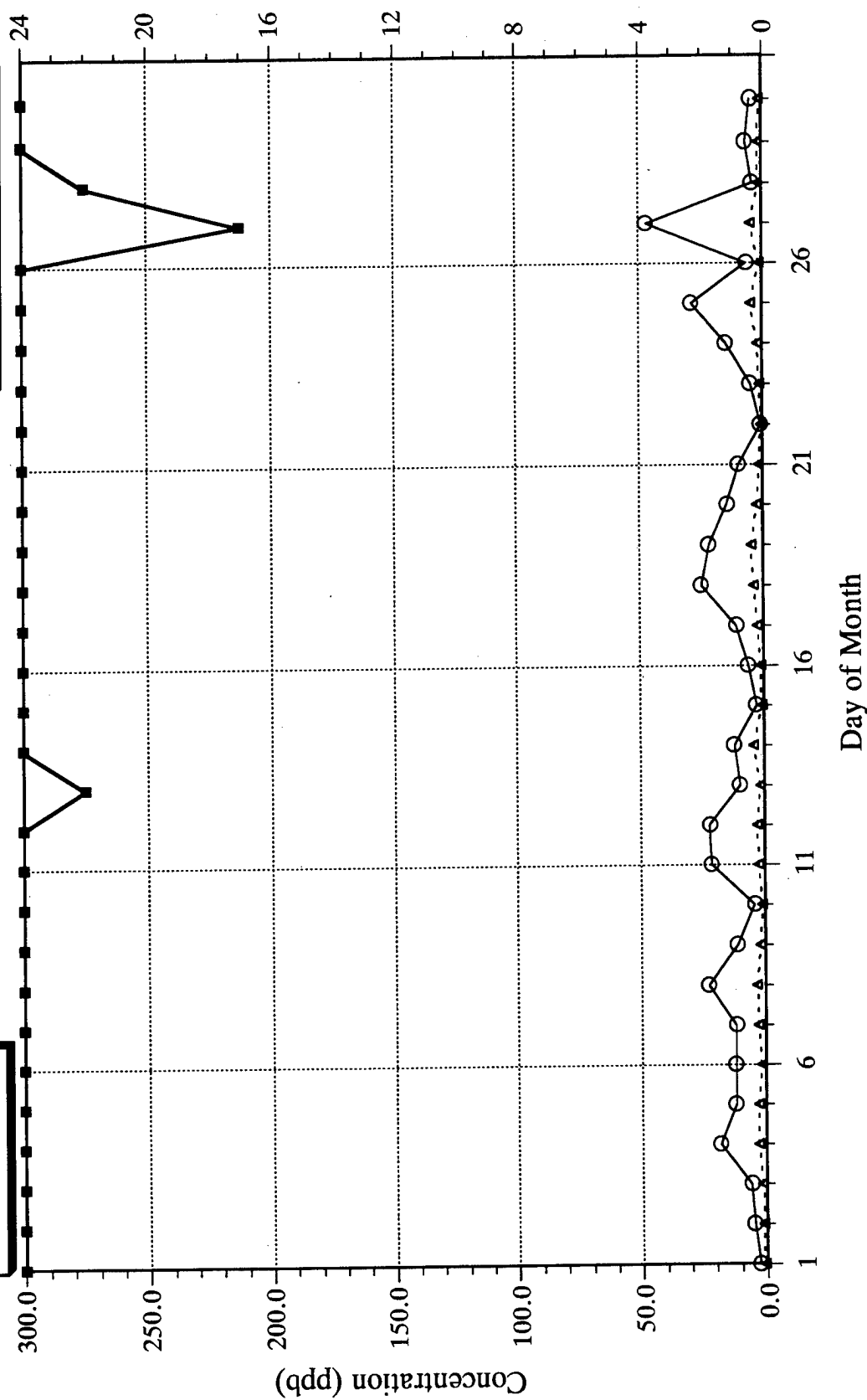
RMA-CAQMMP Nitric Oxide  
Concentrations for May 1991

## Nitric Oxide

June 1991

---▲--- Mean  
—○— Maximum

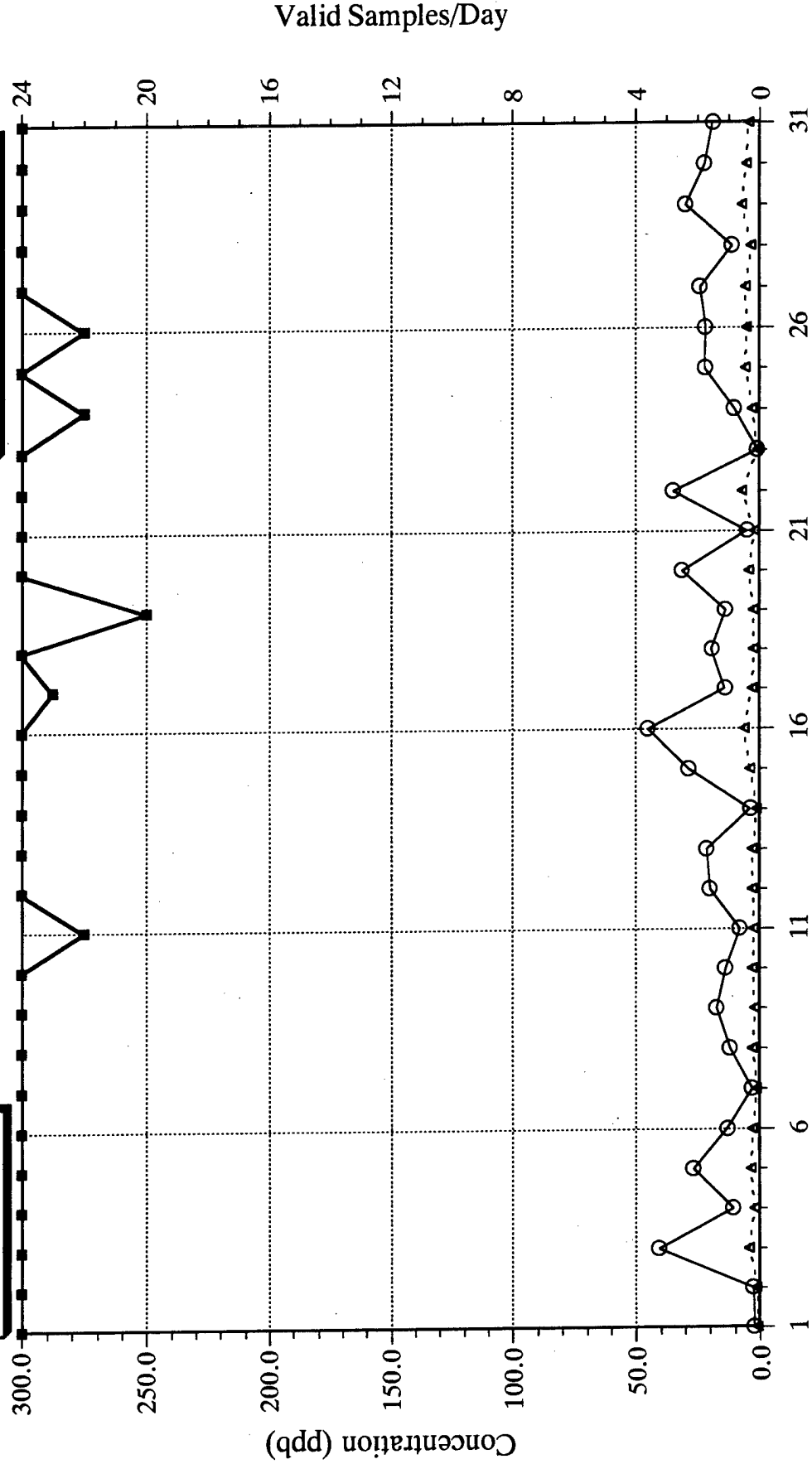
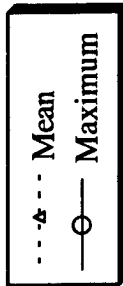
Valid Samples/Day



RMA-CAQMMP Nitric Oxide  
Concentrations for June 1991

# Nitric Oxide

July 1991



Day of Month

RMA-CAQMMP Nitric Oxide  
Concentrations for July 1991

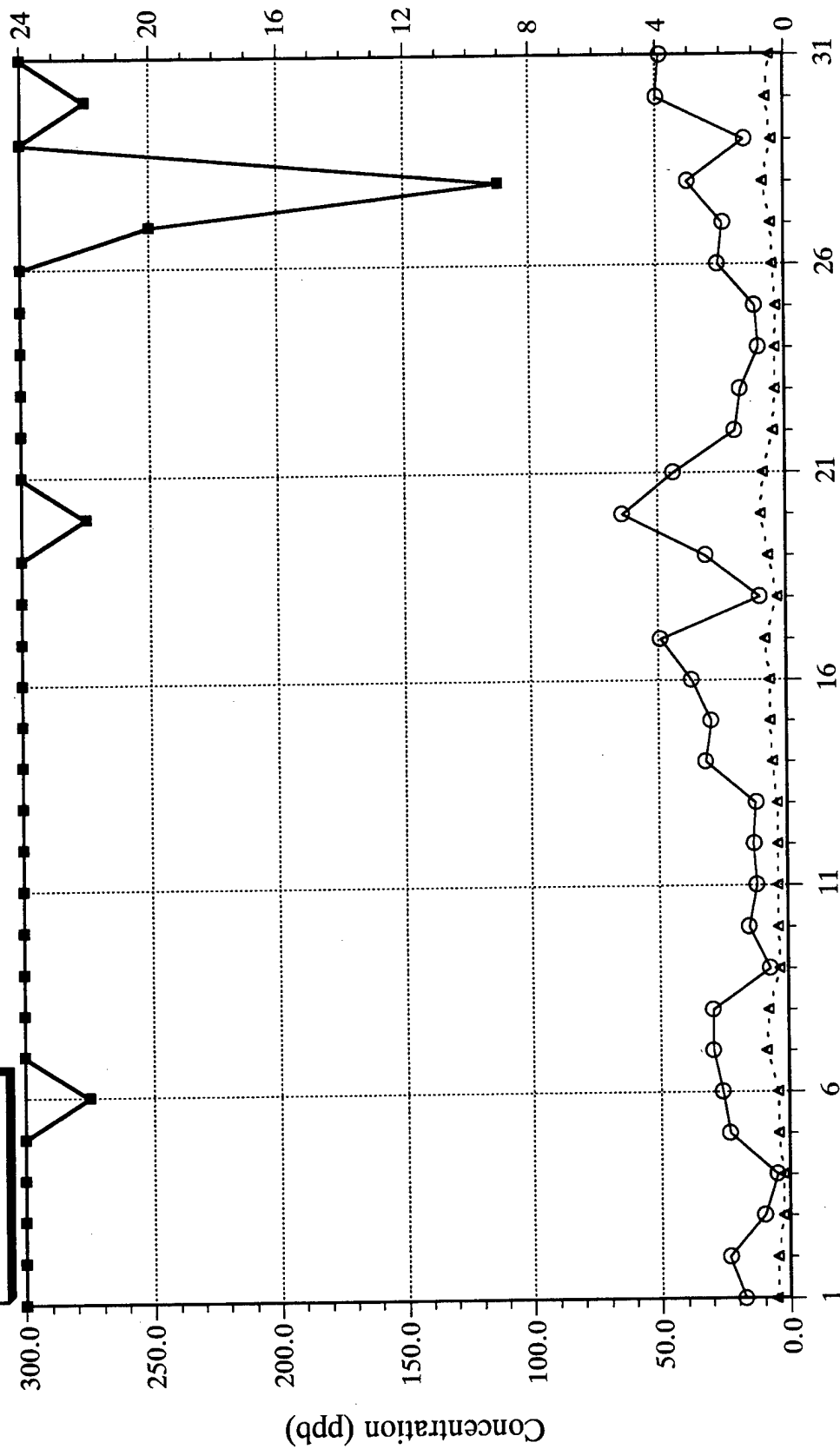


# Nitric Oxide

August 1991

---△--- Mean  
—○— Maximum

—■— Valid Samples/Day



RMA-CAQMMP Nitric Oxide  
Concentrations for August 1991

# Nitric Oxide

September 1991

---△--- Mean  
—○— Maximum

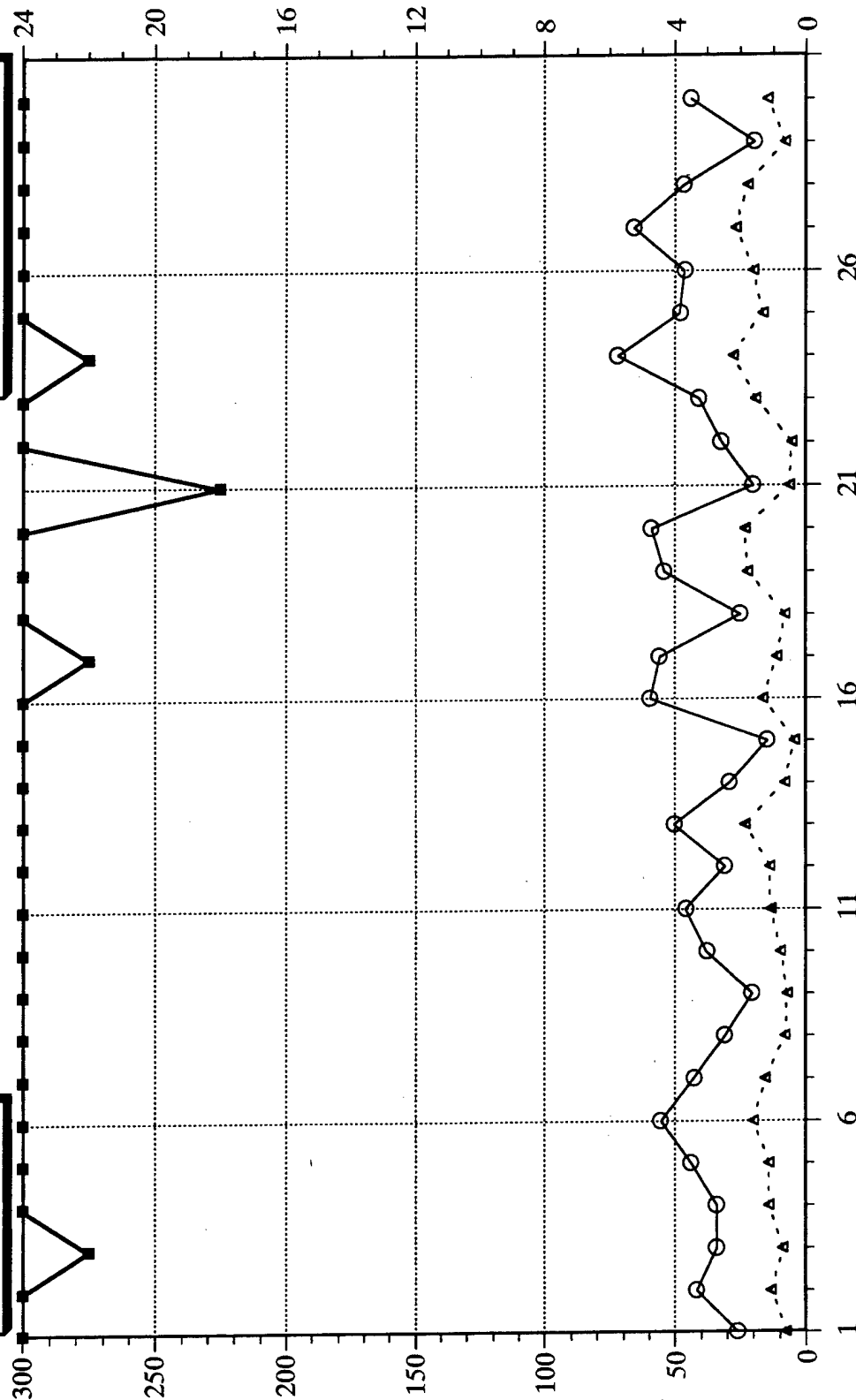
—■— Valid Samples/Day

Concentration (ppb)

Valid Samples/Day

Day of Month

RMA-CAQMMP Nitric Oxide  
Concentrations for September 1991



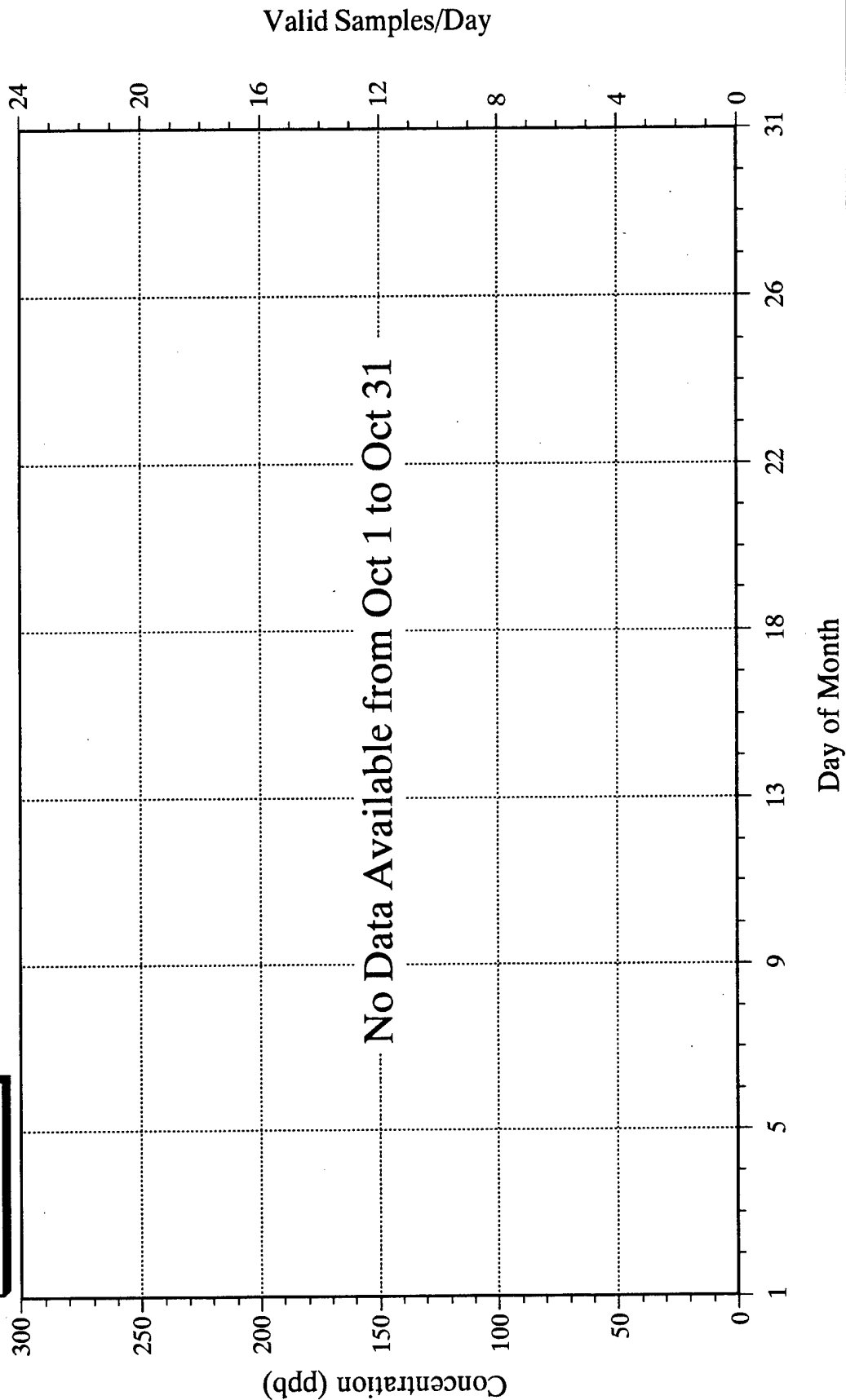
H5 NITROGEN DIOXIDE (NO<sub>2</sub>)

# Nitrogen Dioxide

October 1990

---▲--- Mean  
---○--- Maximum

---■--- Valid Samples/Day



RMA-CAQMMP Nitrogen Dioxide  
Concentrations for October 1990

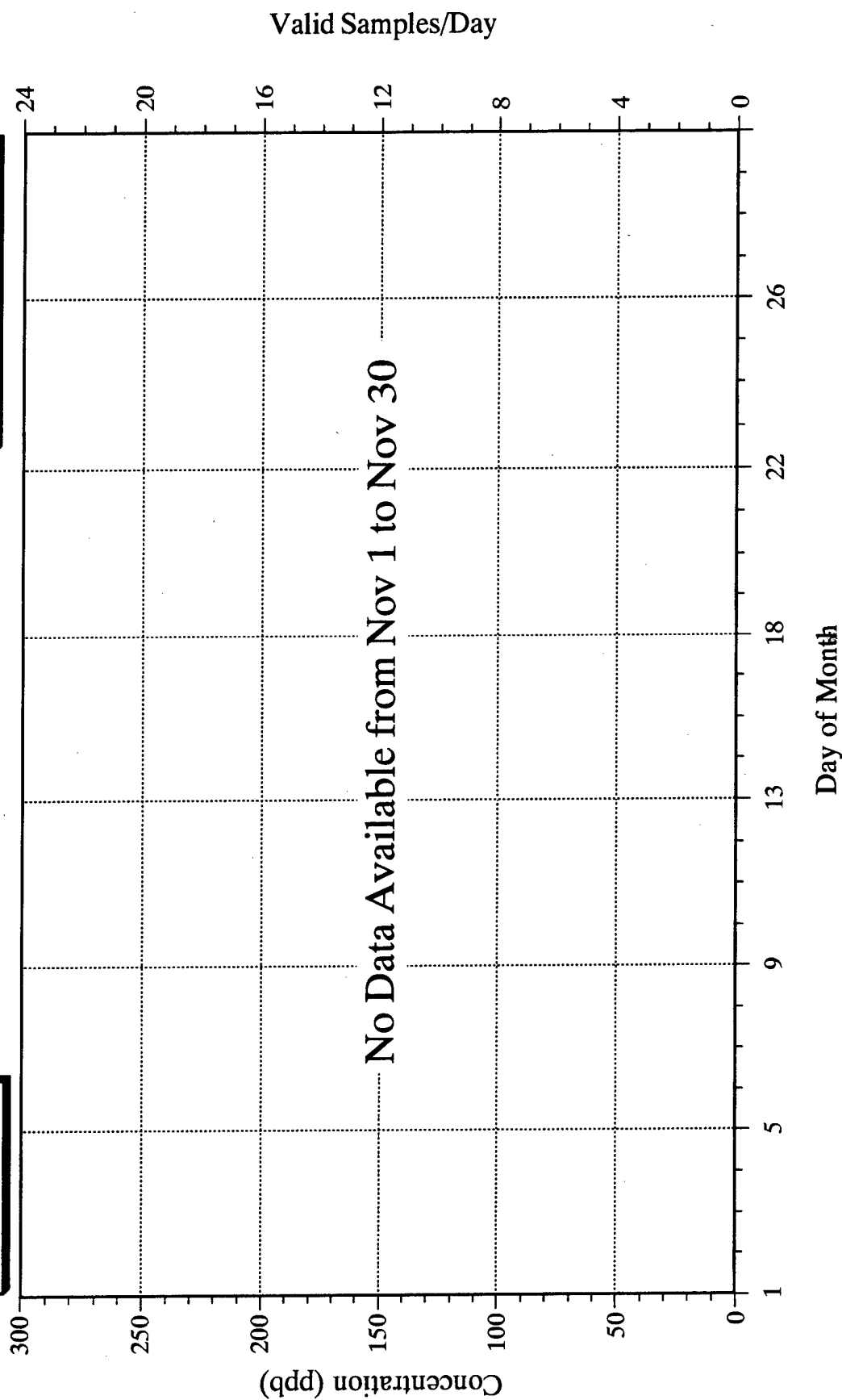


# Nitrogen Dioxide

November 1990

---▲--- Mean  
—○— Maximum

—■— Valid Samples/Day



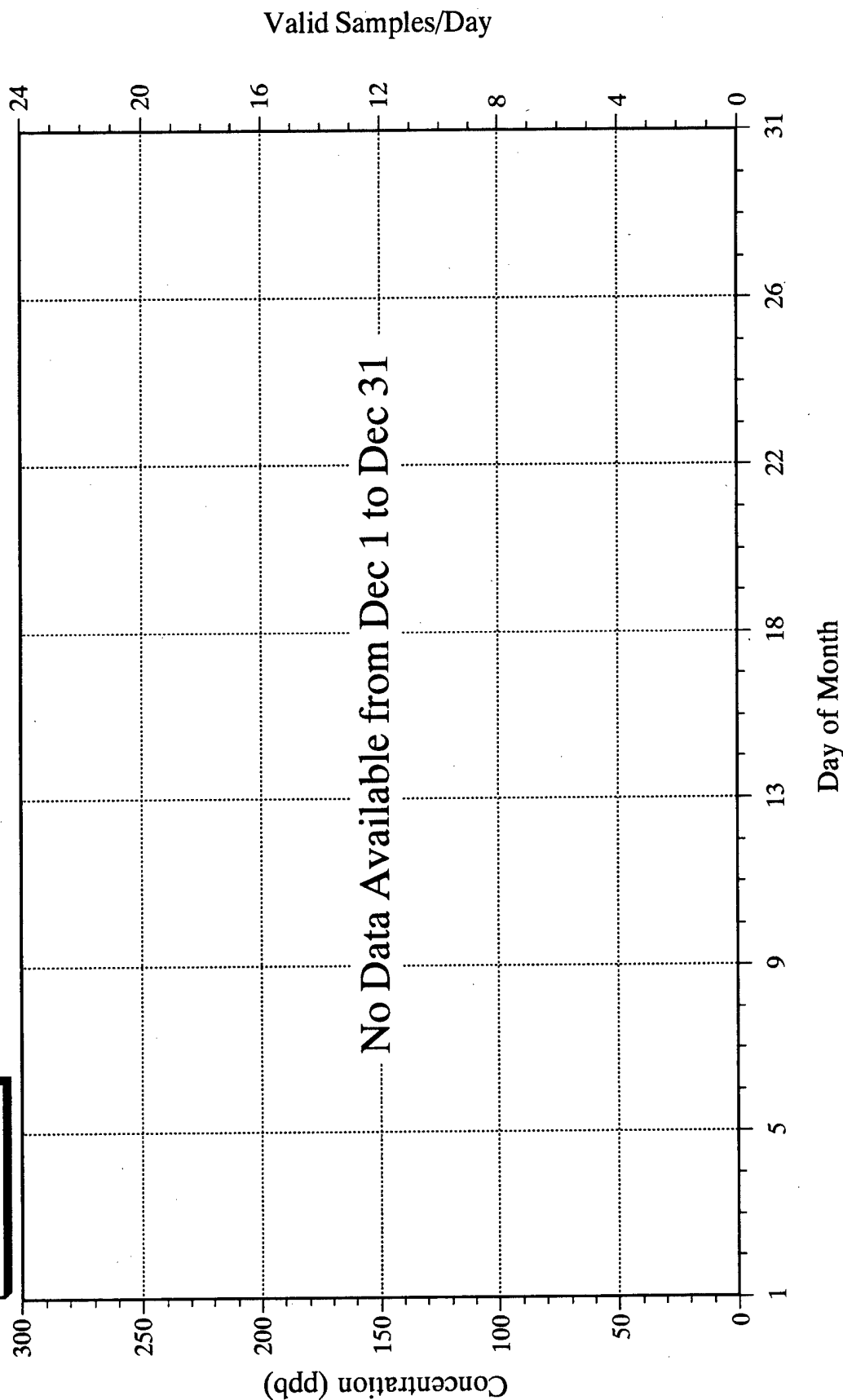
RMA-CAQMMP Nitrogen Dioxide  
Concentrations for November 1990

# Nitrogen Dioxide

December 1990

---▲--- Mean  
---○--- Maximum

---■--- Valid Samples/Day



RMA-CAQMMP Nitrogen Dioxide

Concentrations for December 1990

# Nitrogen Dioxide

January 1991

---▲--- Mean  
—○— Maximum

—■— Valid Samples/Day

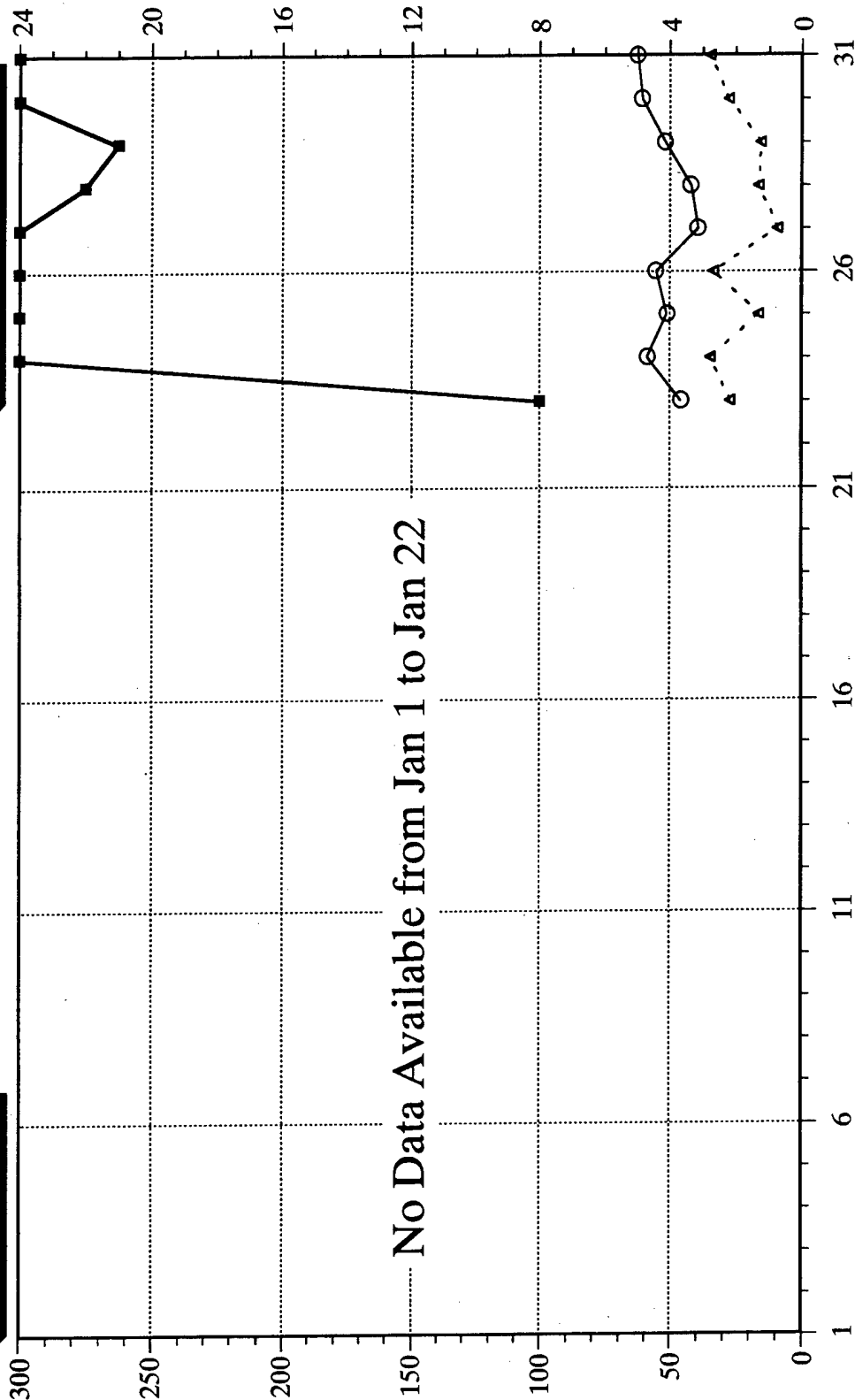
Concentration (ppb)

Valid Samples/Day

No Data Available from Jan 1 to Jan 22

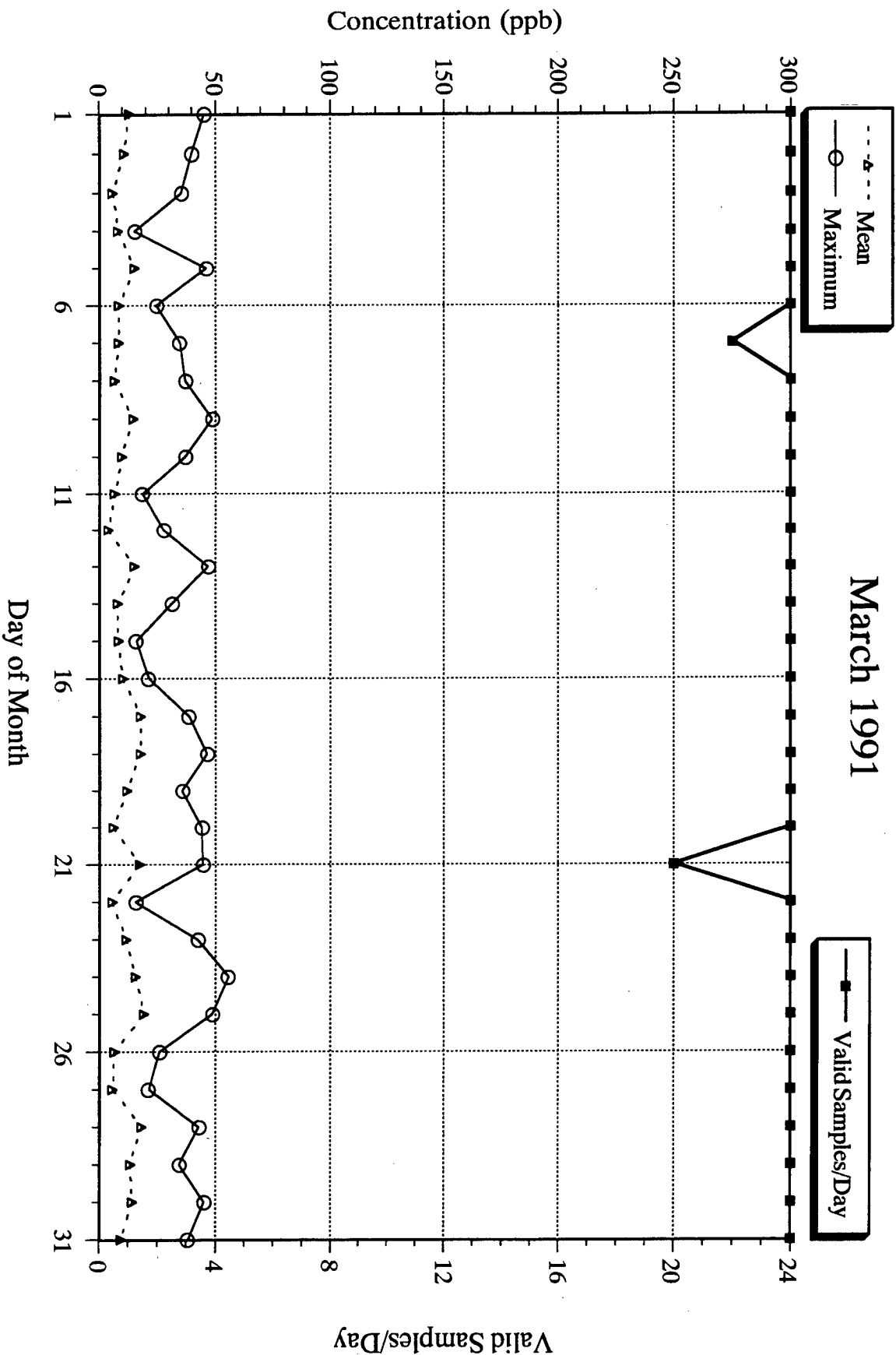
Day of Month

RMA-CAQMMP Nitrogen Dioxide  
Concentrations for January 1991



# Nitrogen Dioxide

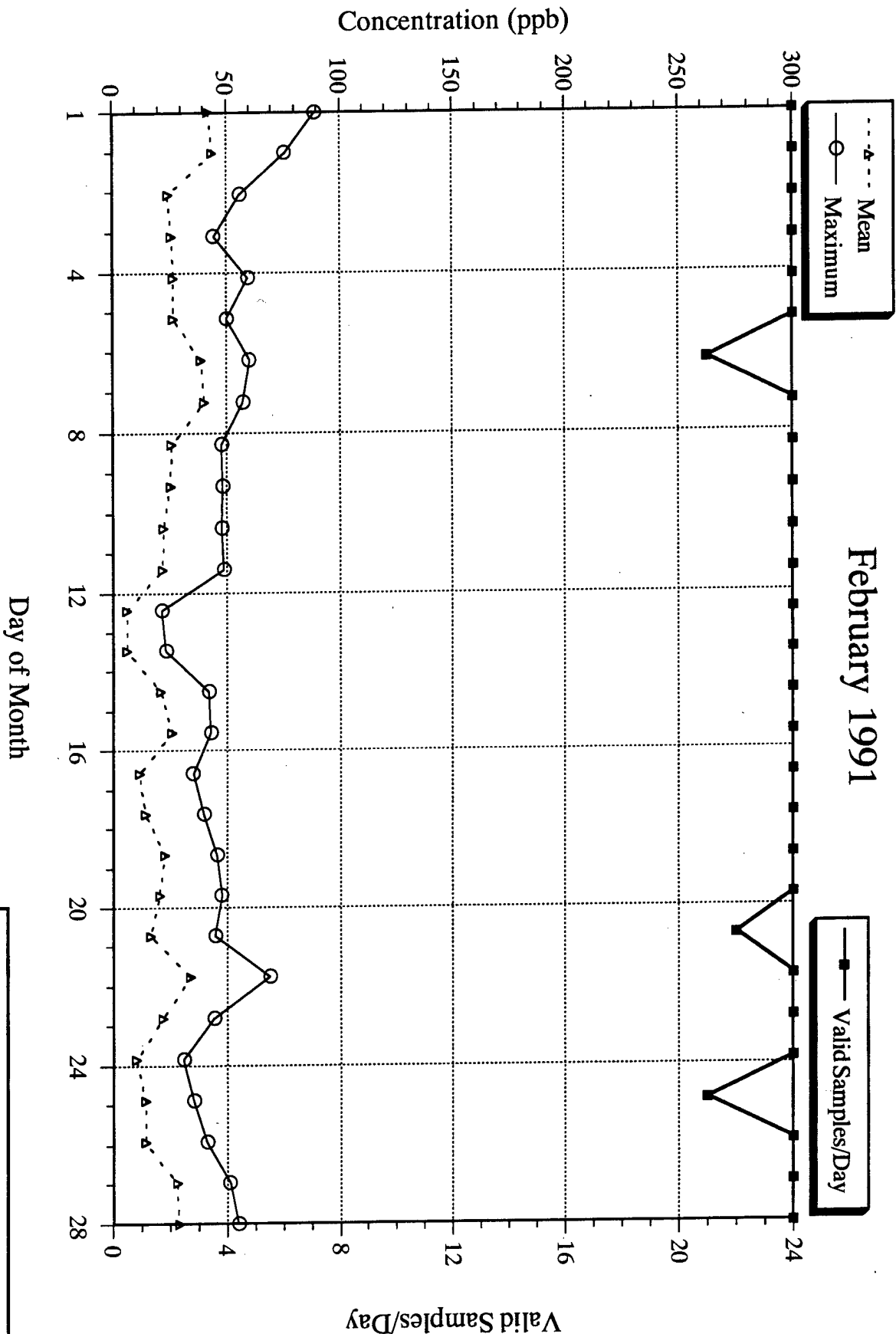
March 1991



RMA-CAQMP Nitrogen Dioxide  
Concentrations for March 1991

# Nitrogen Dioxide

February 1991

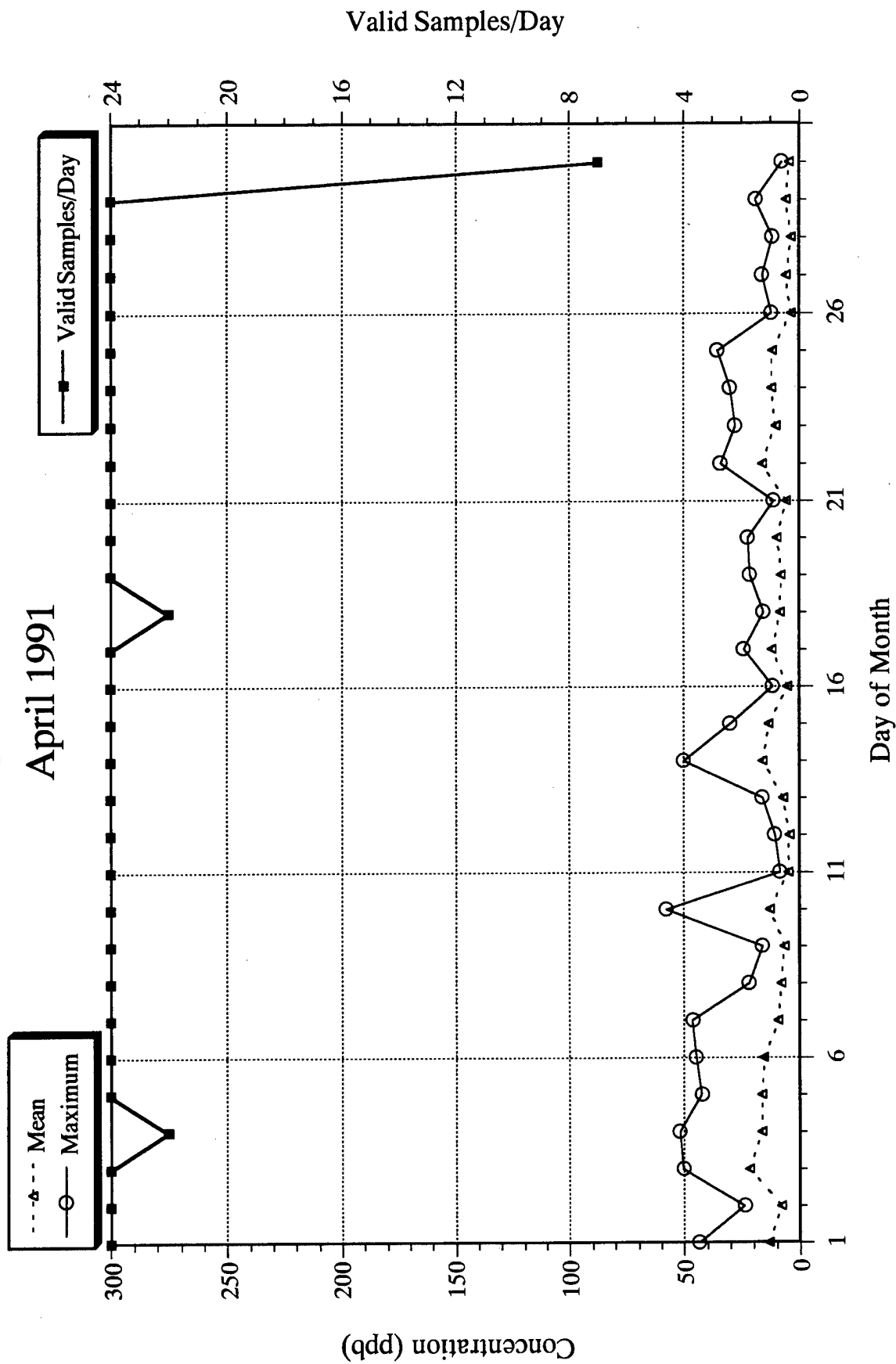


RMA-CAQMP Nitrogen Dioxide  
Concentrations for February 1991



# Nitrogen Dioxide

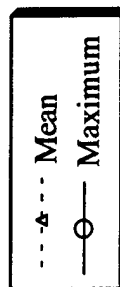
April 1991



RMA-CAQMMP Nitrogen Dioxide  
Concentrations for April 1991

# Nitrogen Dioxide

May 1991

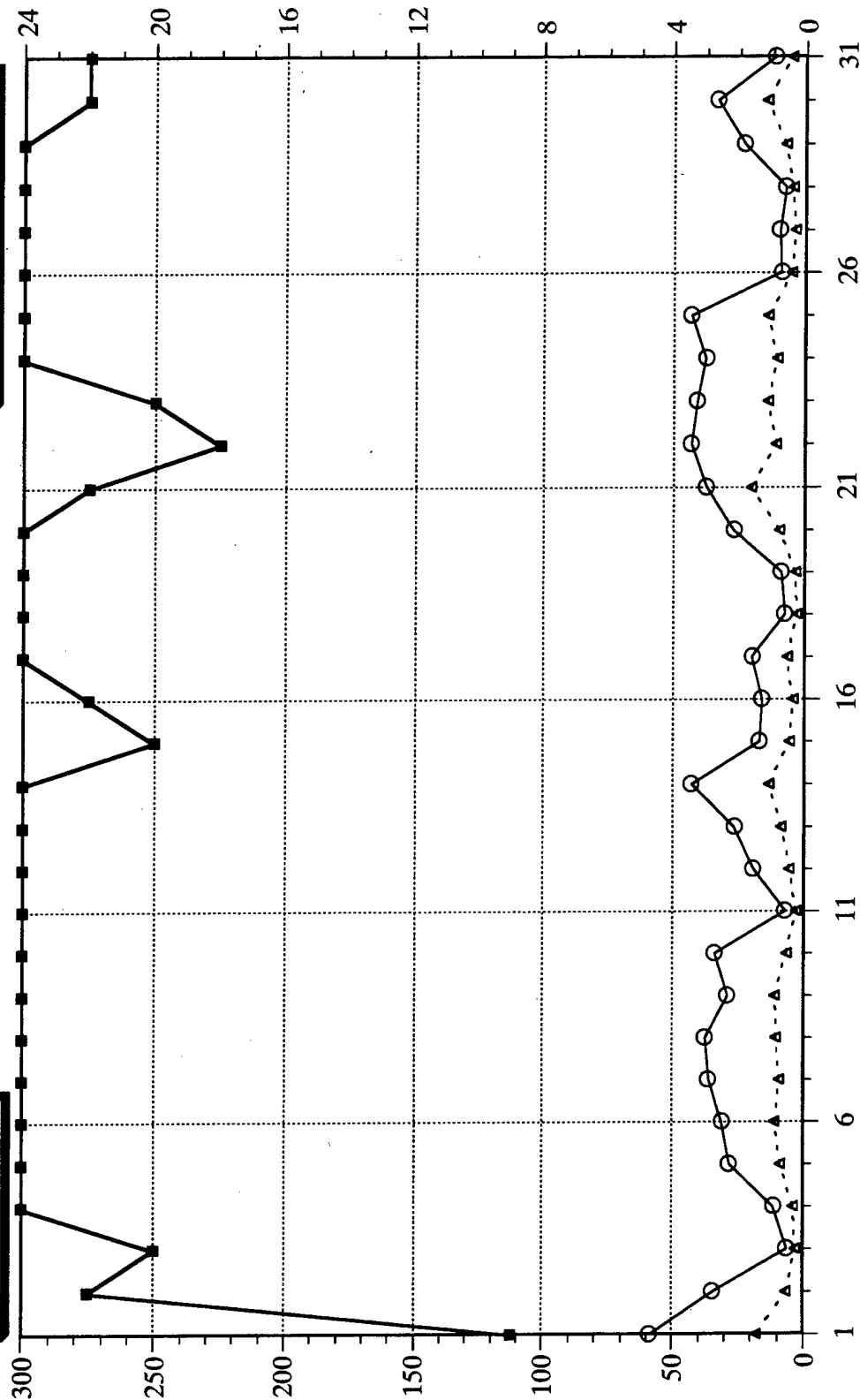


Concentration (ppb)

Valid Samples/Day

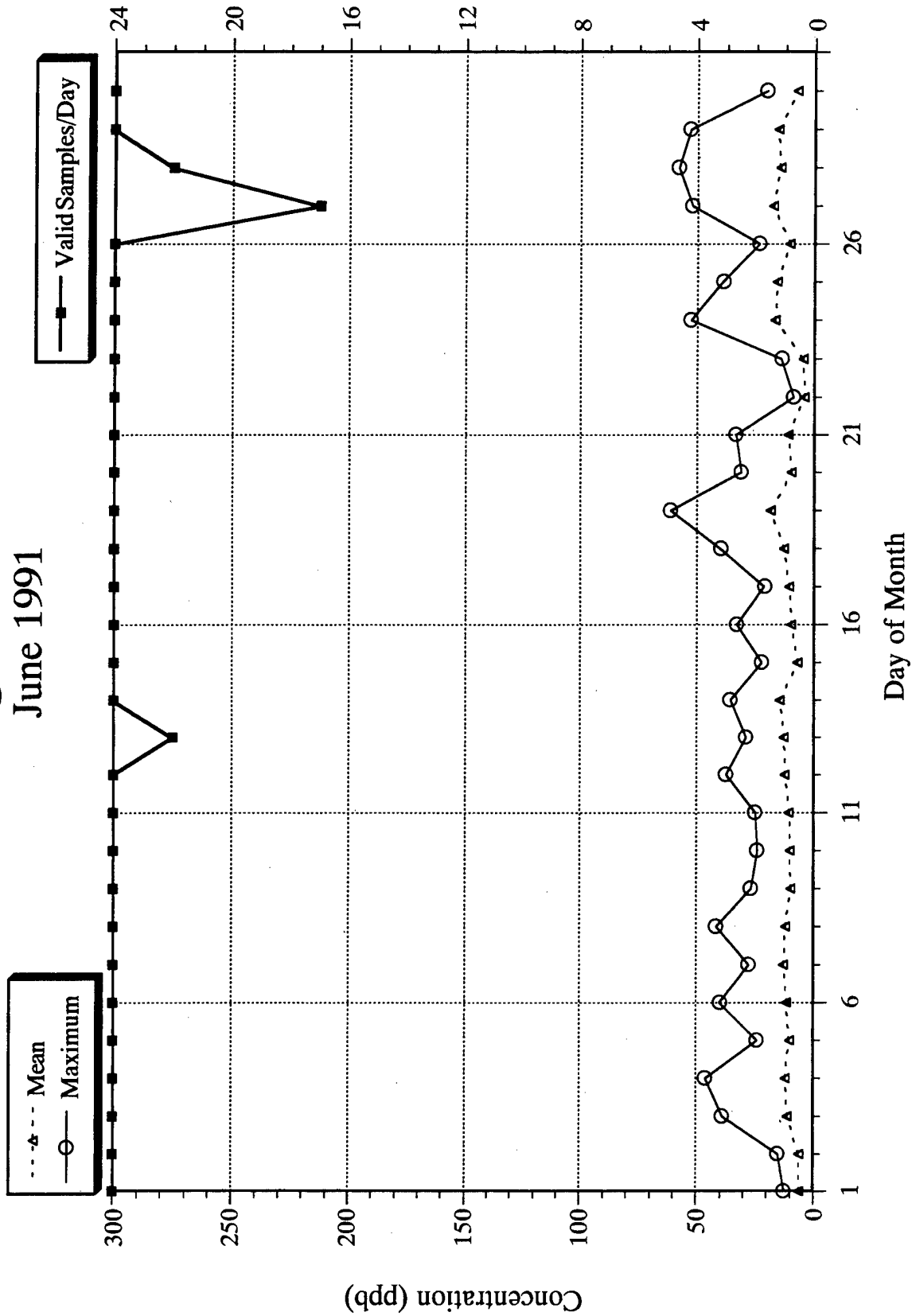
Day of Month

RMA-CAQMMP Nitrogen Dioxide  
Concentrations for May 1991



# Nitrogen Dioxide

June 1991



RMA-CAQMMP Nitrogen Dioxide  
Concentrations for June 1991

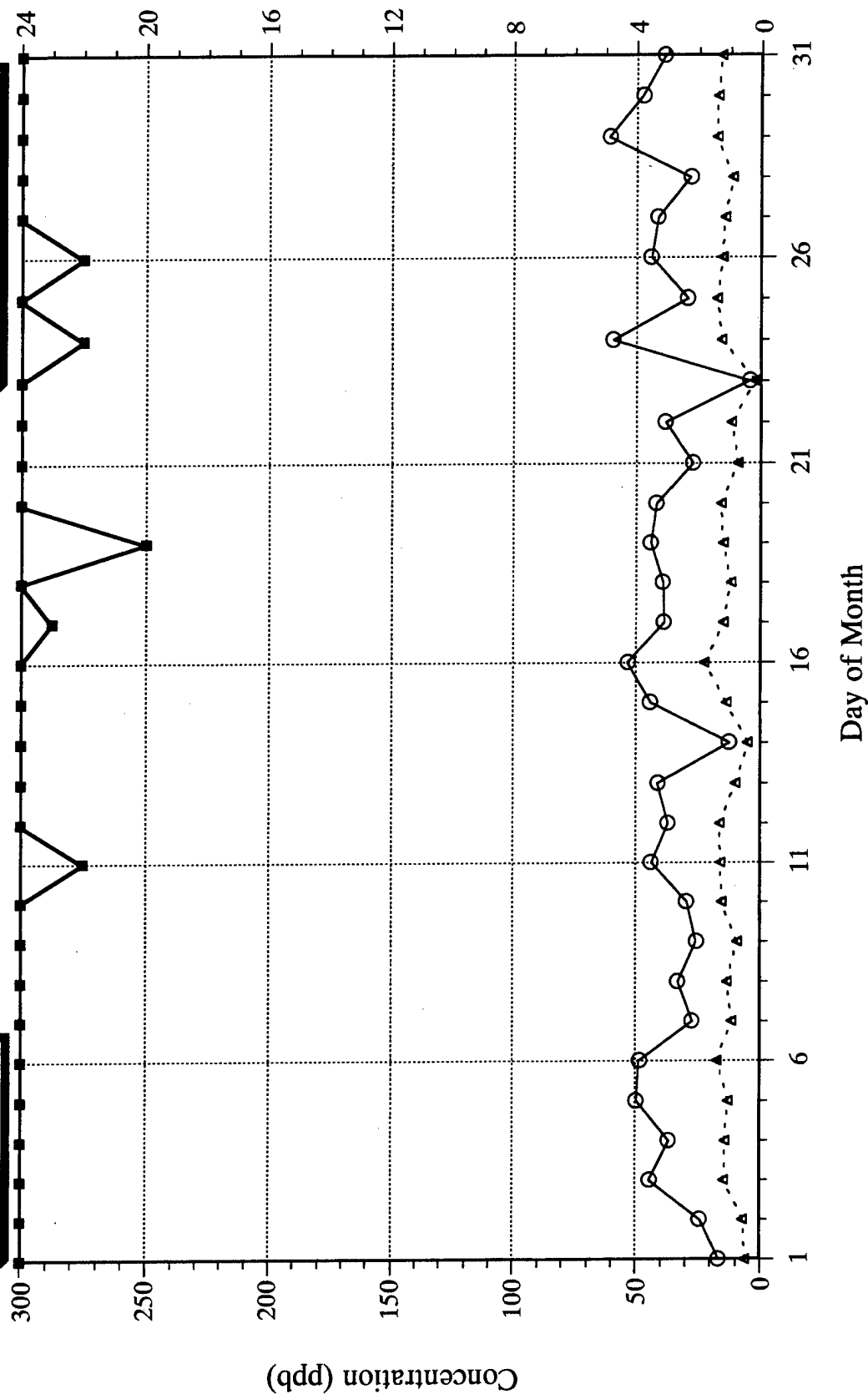


# Nitrogen Dioxide

July 1991

---▲--- Mean  
—○— Maximum

—■— Valid Samples/Day

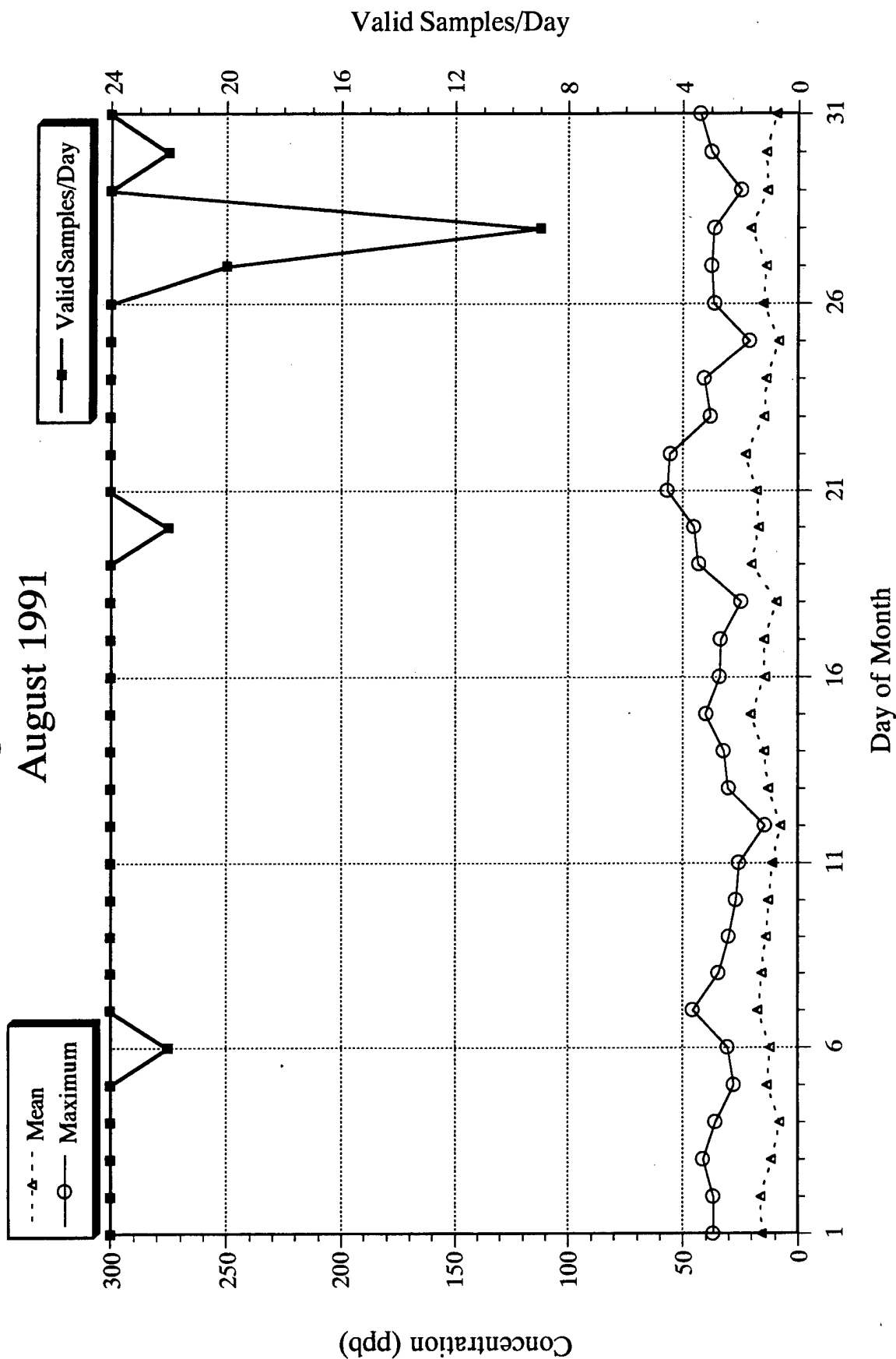


RMA-CAQMMP Nitrogen Dioxide  
Concentrations for July 1991



# Nitrogen Dioxide

August 1991



RMA-CAQMMP Nitrogen Dioxide  
Concentrations for August 1991

# Nitrogen Dioxide

September 1991

---▲--- Mean  
—○— Maximum

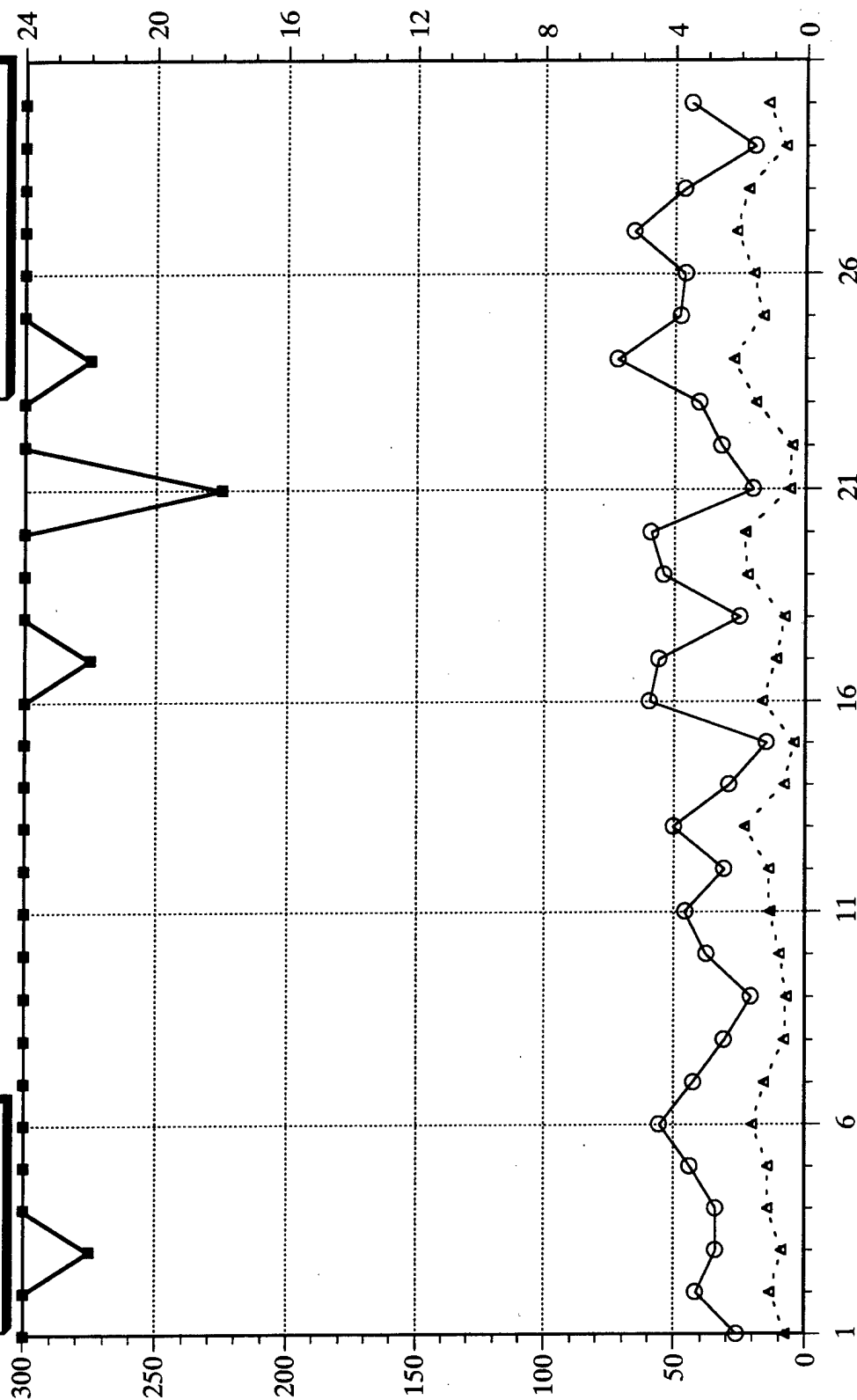
—■— Valid Samples/Day

Concentration (ppb)

Valid Samples/Day

Day of Month

RMA-CAQMMP Nitrogen Dioxide  
Concentrations for September 1991



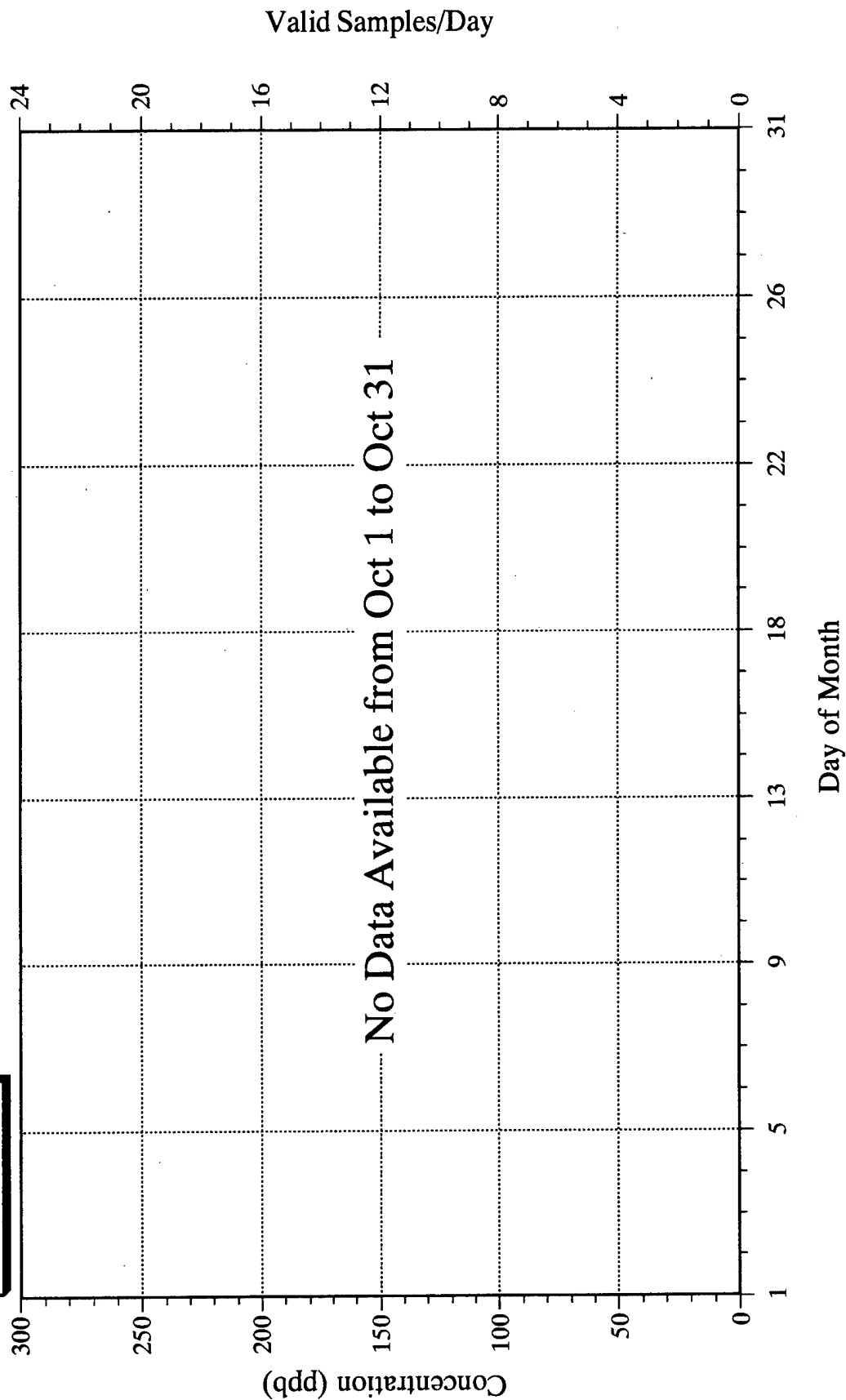
H6 NITROGEN OXIDES (NOX)

# Oxides of Nitrogen

October 1990

---▲--- Mean  
---○--- Maximum

—■— Valid Samples/Day



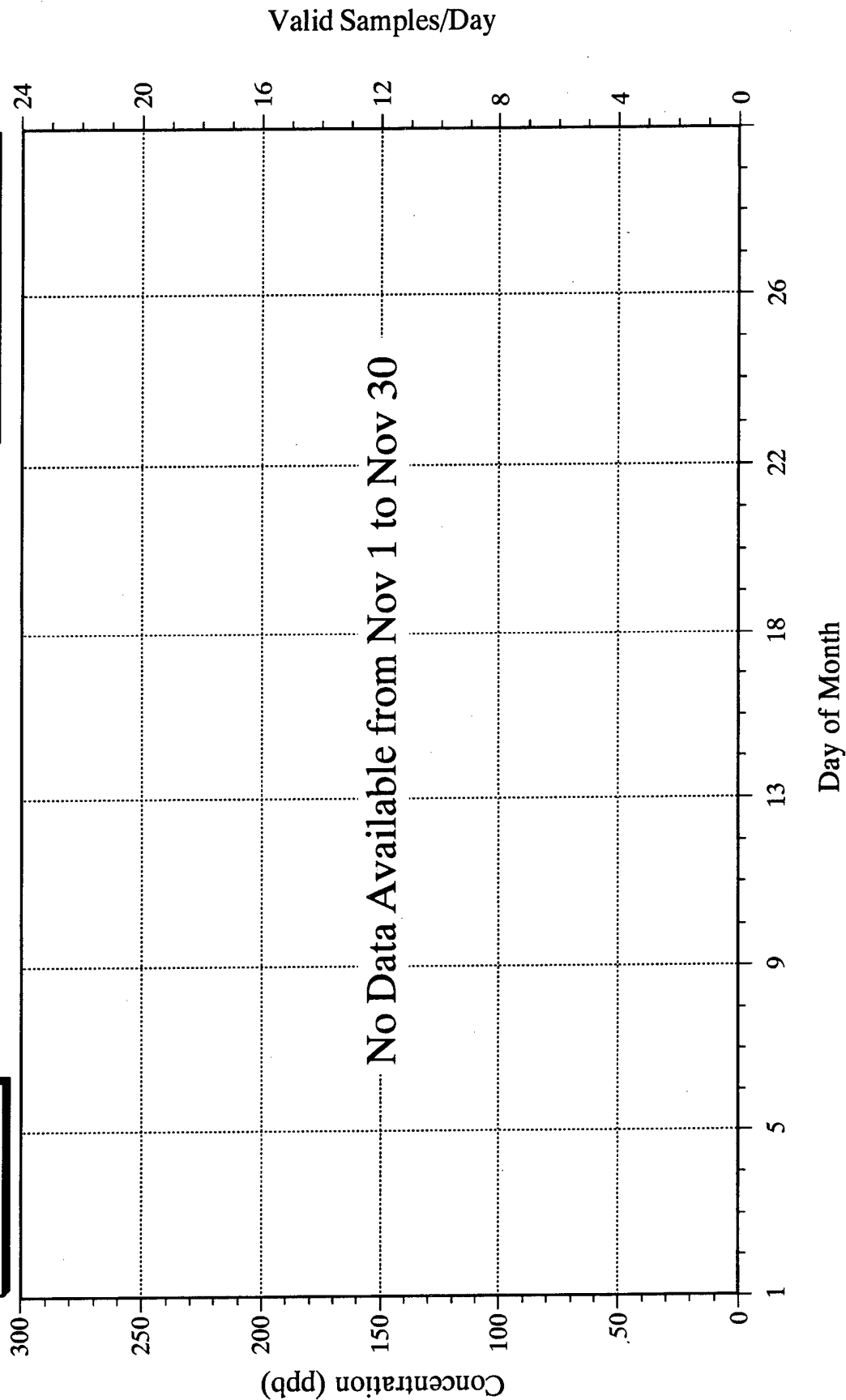
RMA-CAQMMP Oxides of Nitrogen  
Concentrations for October 1990

# Oxides of Nitrogen

November 1990

---▲--- Mean  
—○— Maximum

—■— Valid Samples/Day



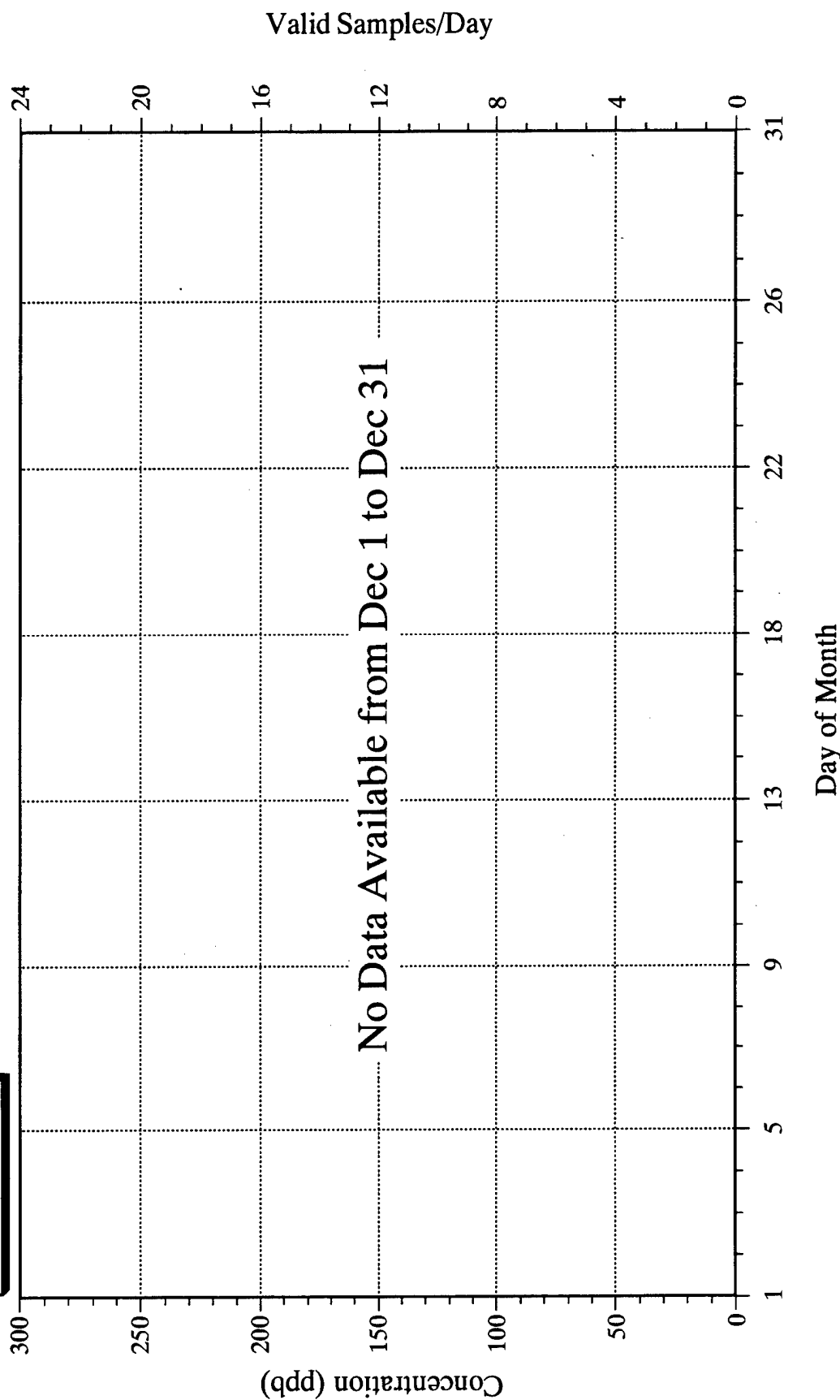
RMA-CAQMMP Oxides of Nitrogen  
Concentrations for November 1990

# Oxides of Nitrogen

December 1990

---△--- Mean  
---○--- Maximum

---■--- Valid Samples/Day

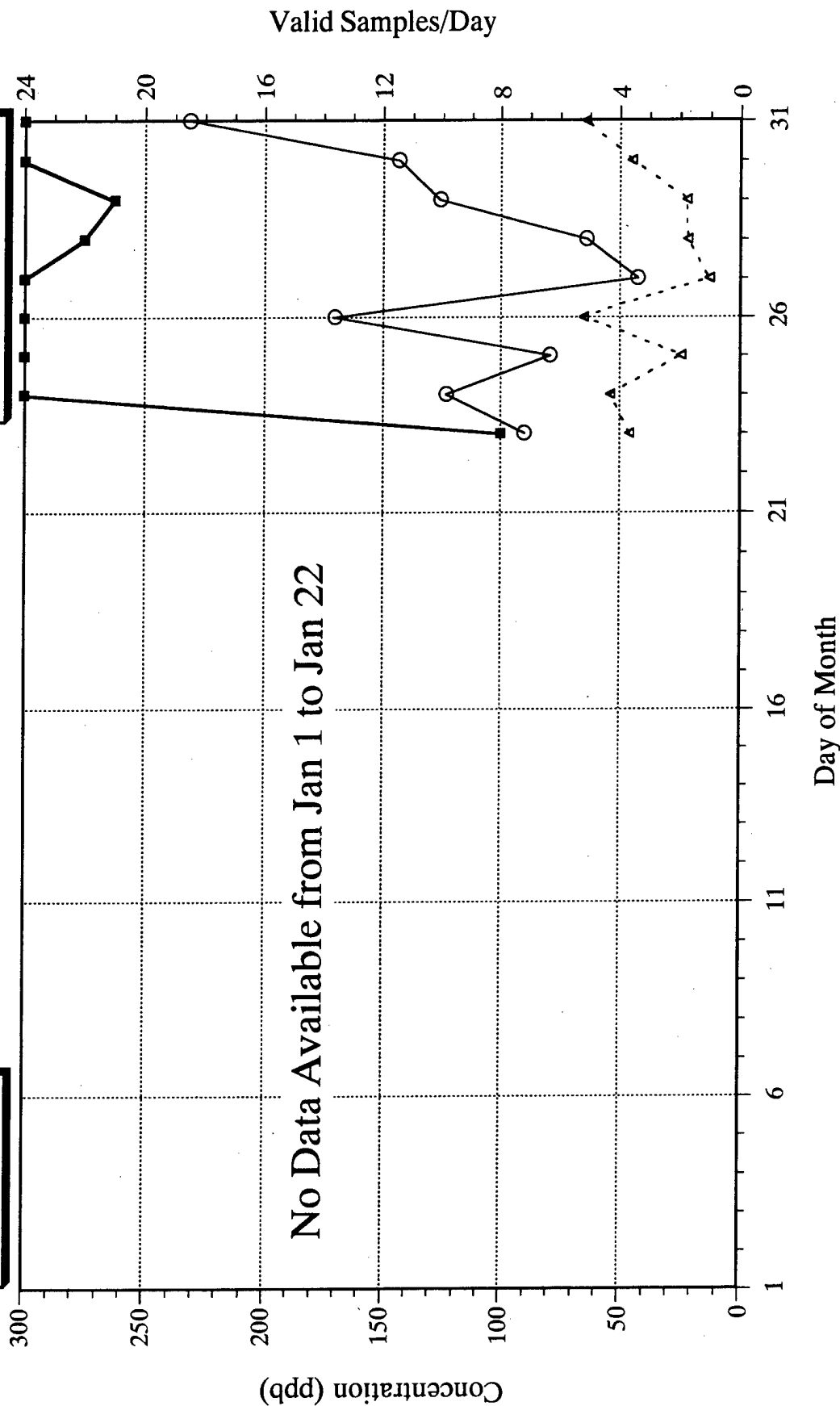


RMA-CAQMMP Oxides of Nitrogen  
Concentrations for December 1990

# Oxides of Nitrogen

January 1991

---△--- Mean  
—○— Maximum

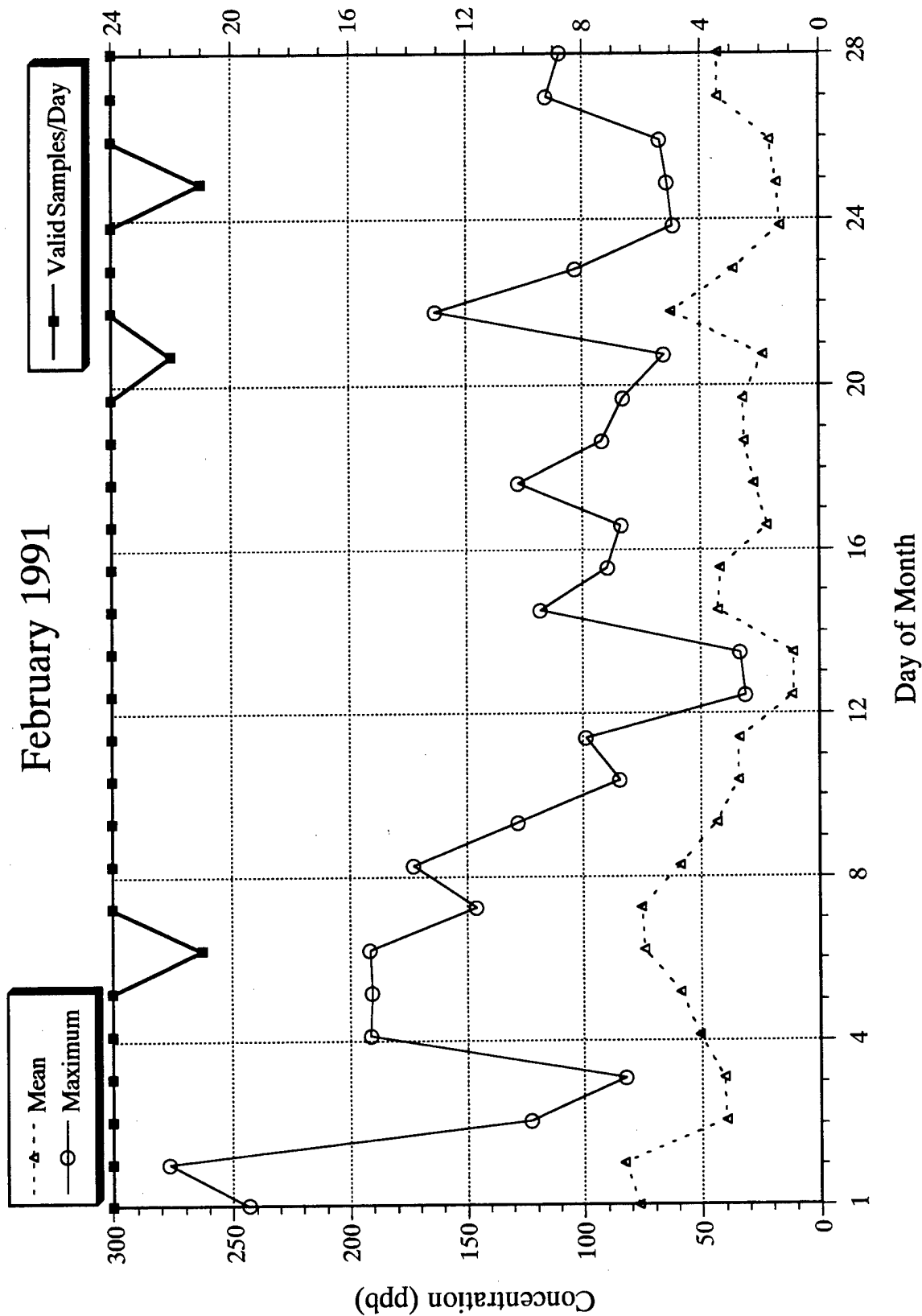


RMA-CAQMMP Oxides of Nitrogen  
Concentrations for January 1991



# Oxides of Nitrogen

February 1991



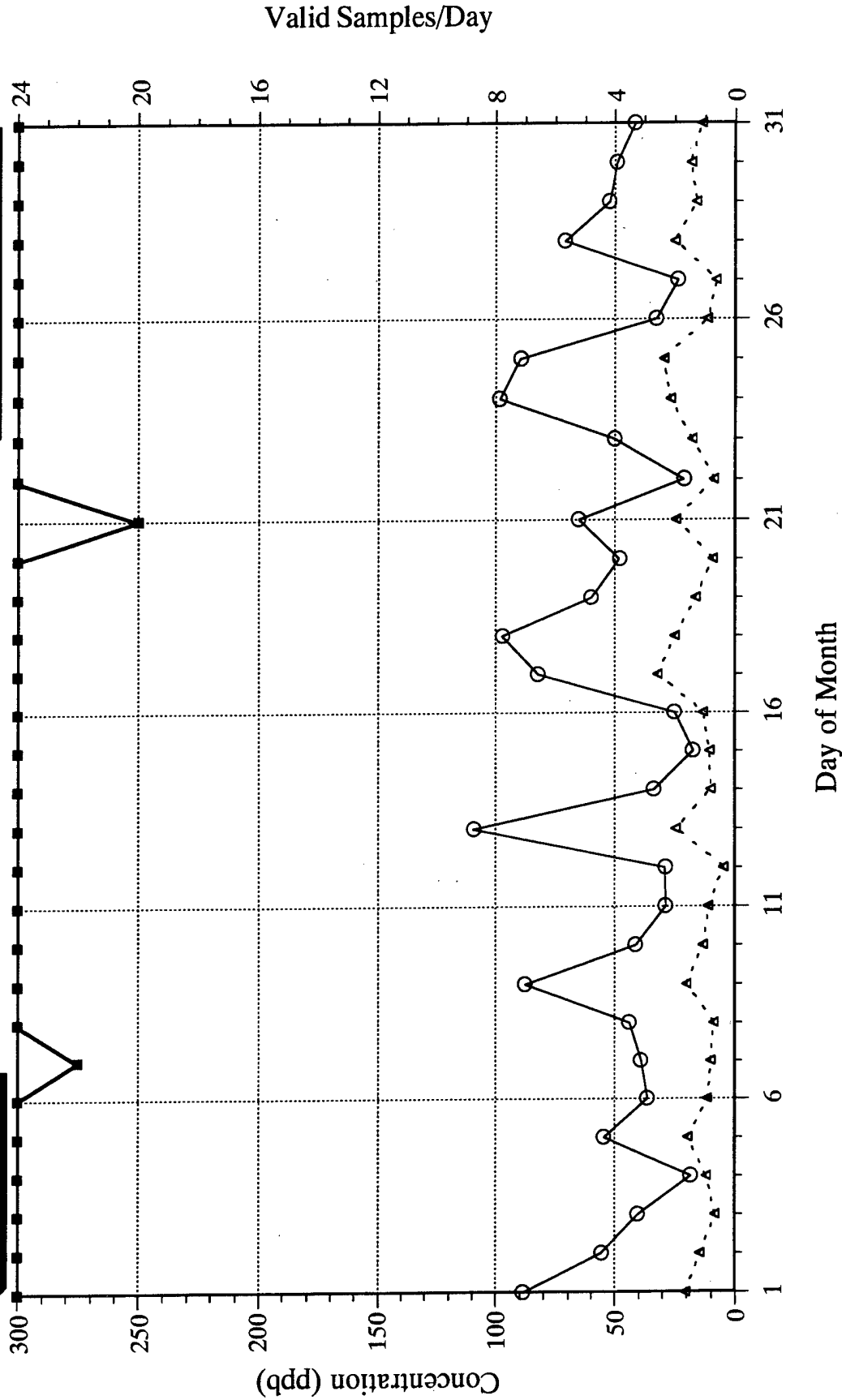
RMA-CAQMMP Oxides of Nitrogen  
Concentrations for February 1991

# Oxides of Nitrogen

March 1991

---▲--- Mean  
—○— Maximum

—■— Valid Samples/Day

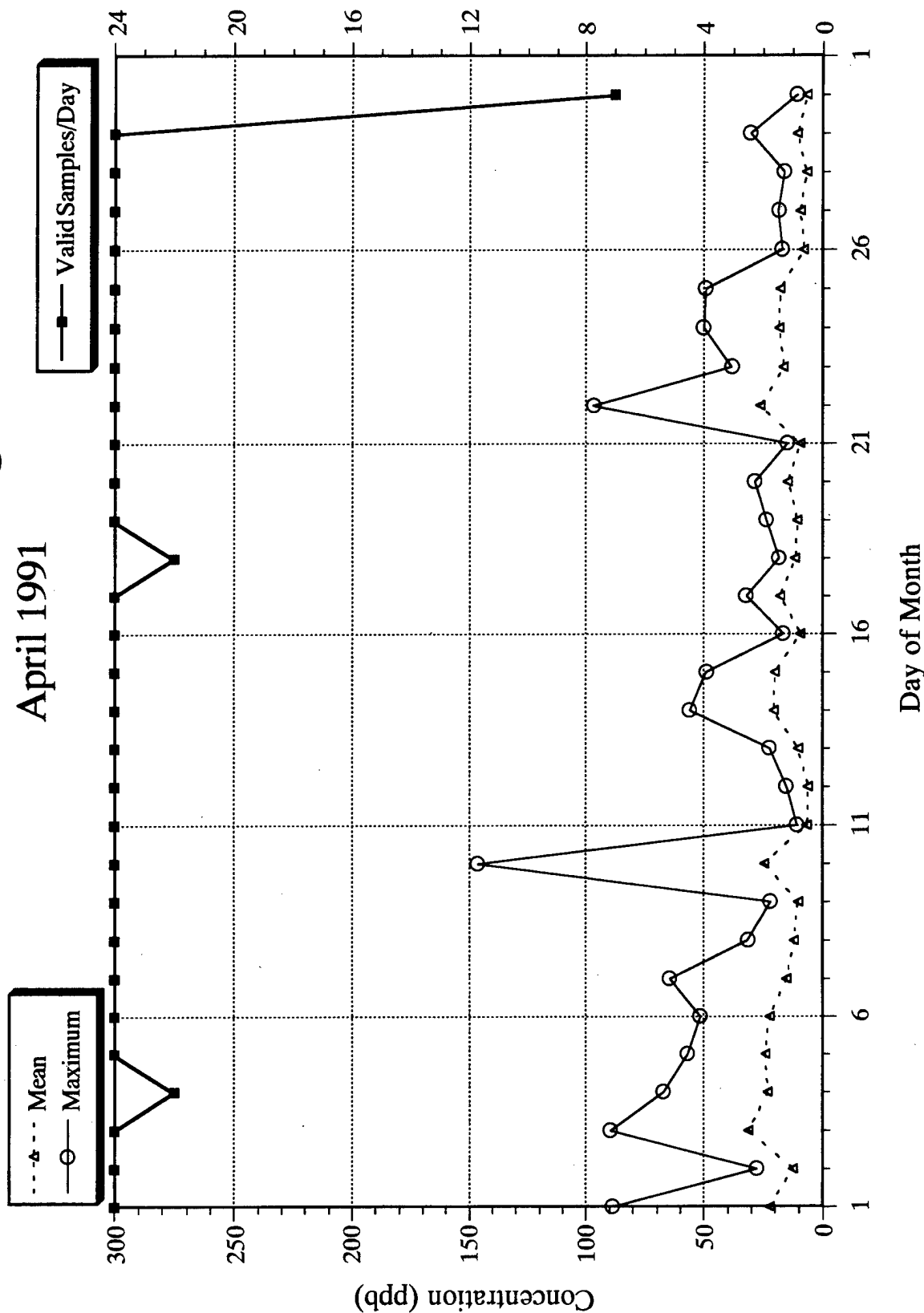


RMA-CAQMMP Oxides of Nitrogen  
Concentrations for March 1991



# Oxides of Nitrogen

April 1991

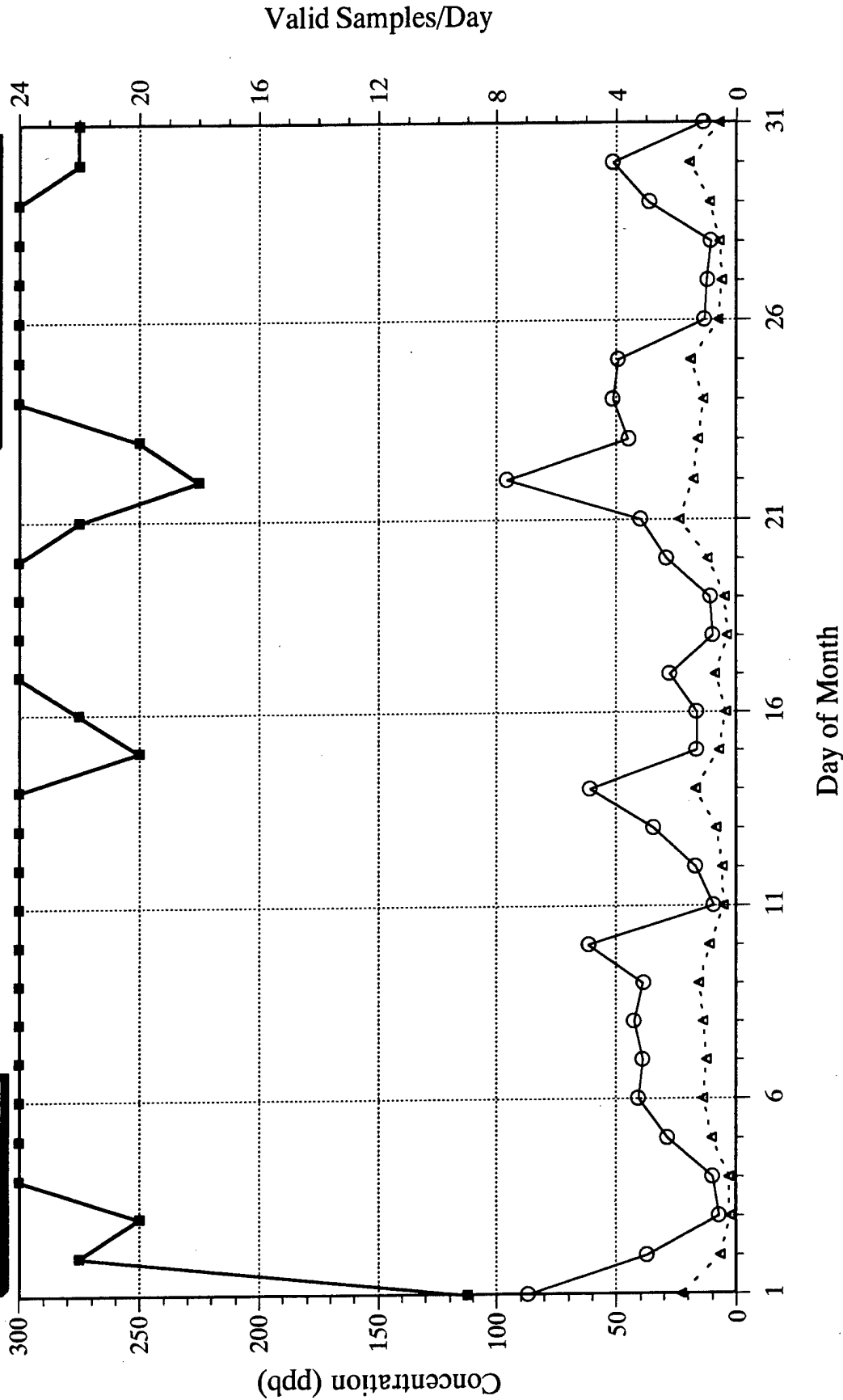
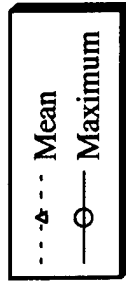


RMA-CAQMMP Oxides of Nitrogen  
Concentrations for April 1991



# Oxides of Nitrogen

May 1991



RMA-CAQMMP Oxides of Nitrogen  
Concentrations for May 1991

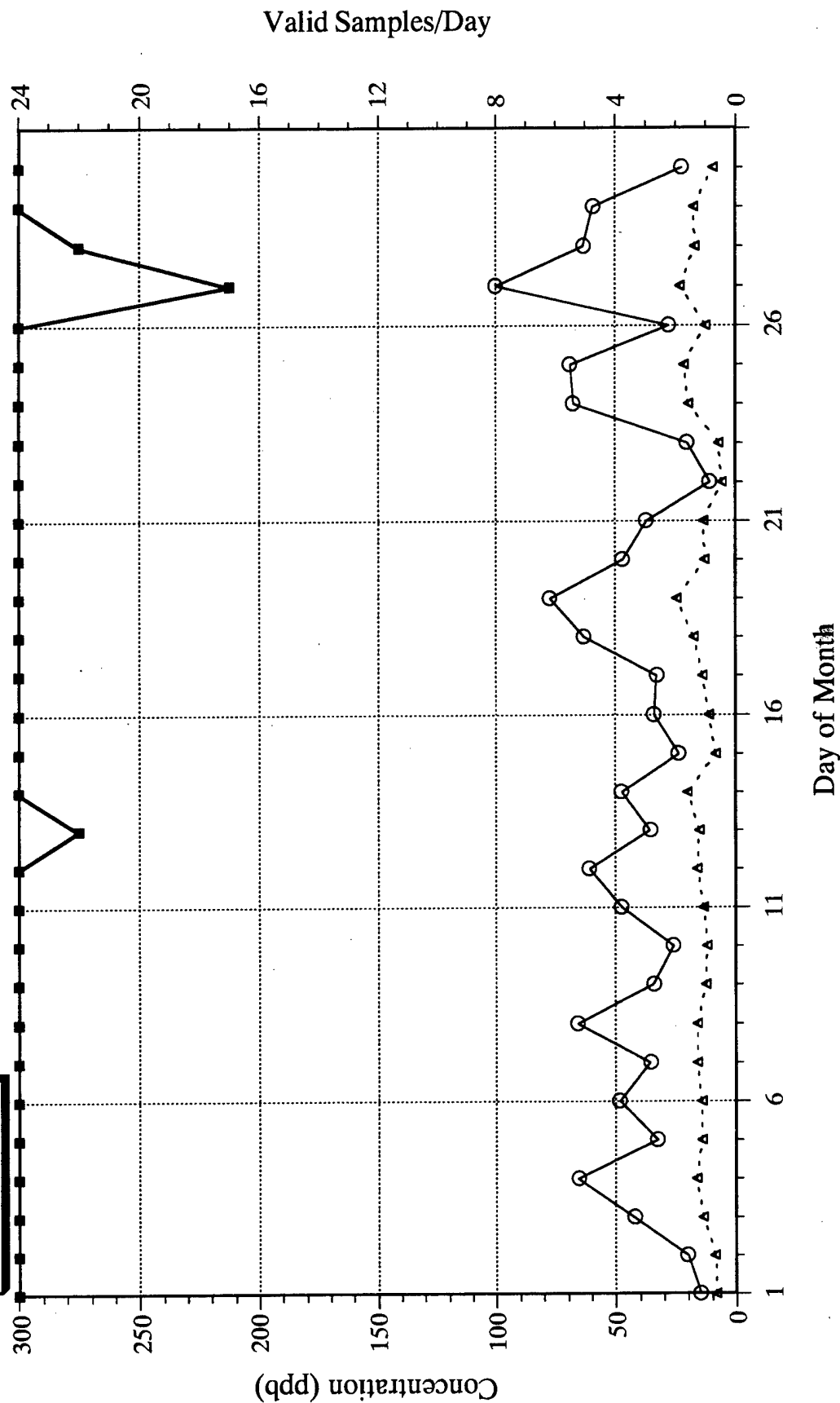


## Oxides of Nitrogen

June 1991

---△--- Mean  
—○— Maximum

—■— Valid Samples/Day



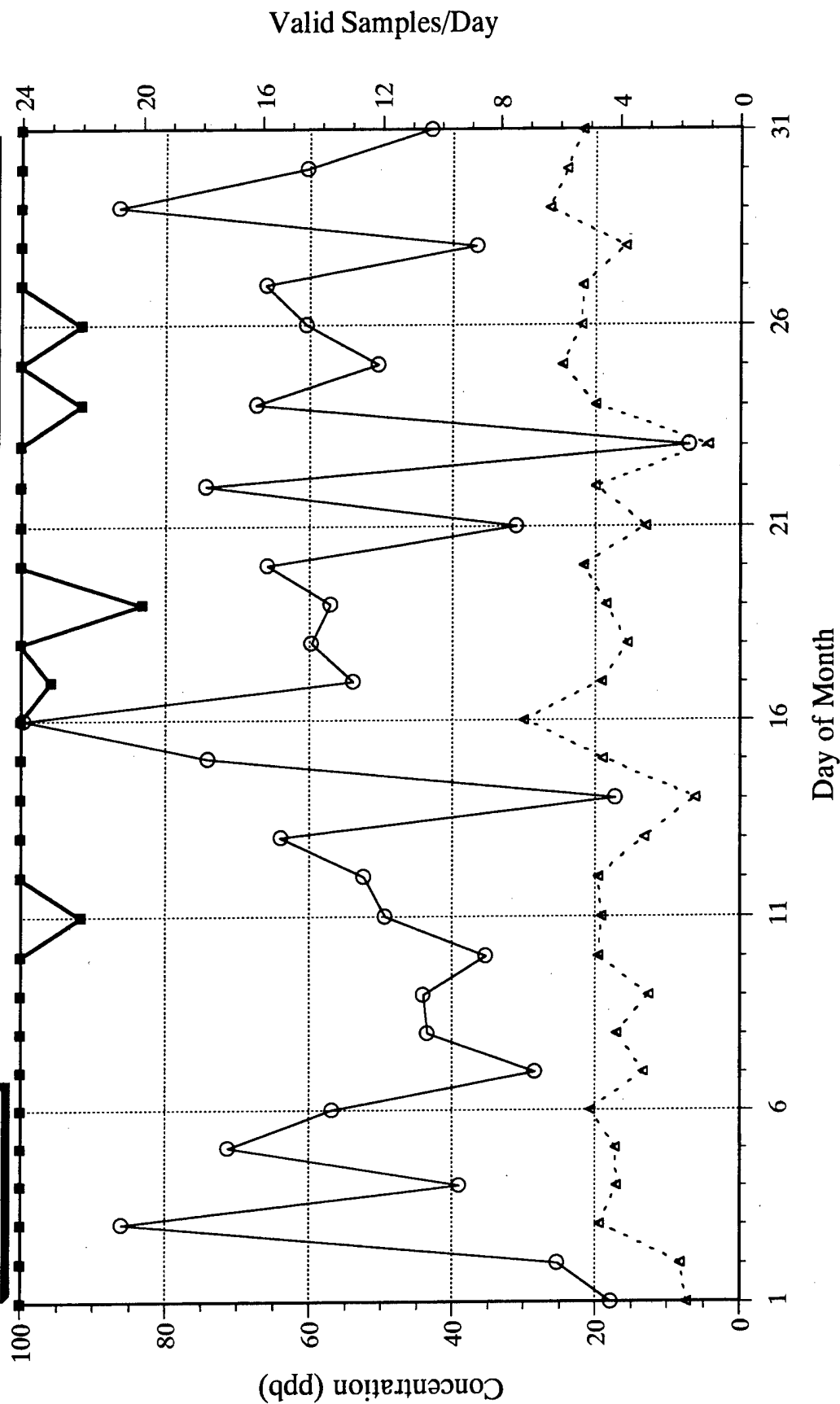
RMA-CAQMMP Oxides of Nitrogen  
Concentrations for June 1991

# Oxides of Nitrogen

July 1991

---△--- Mean  
—○— Maximum

—■— Valid Samples/Day



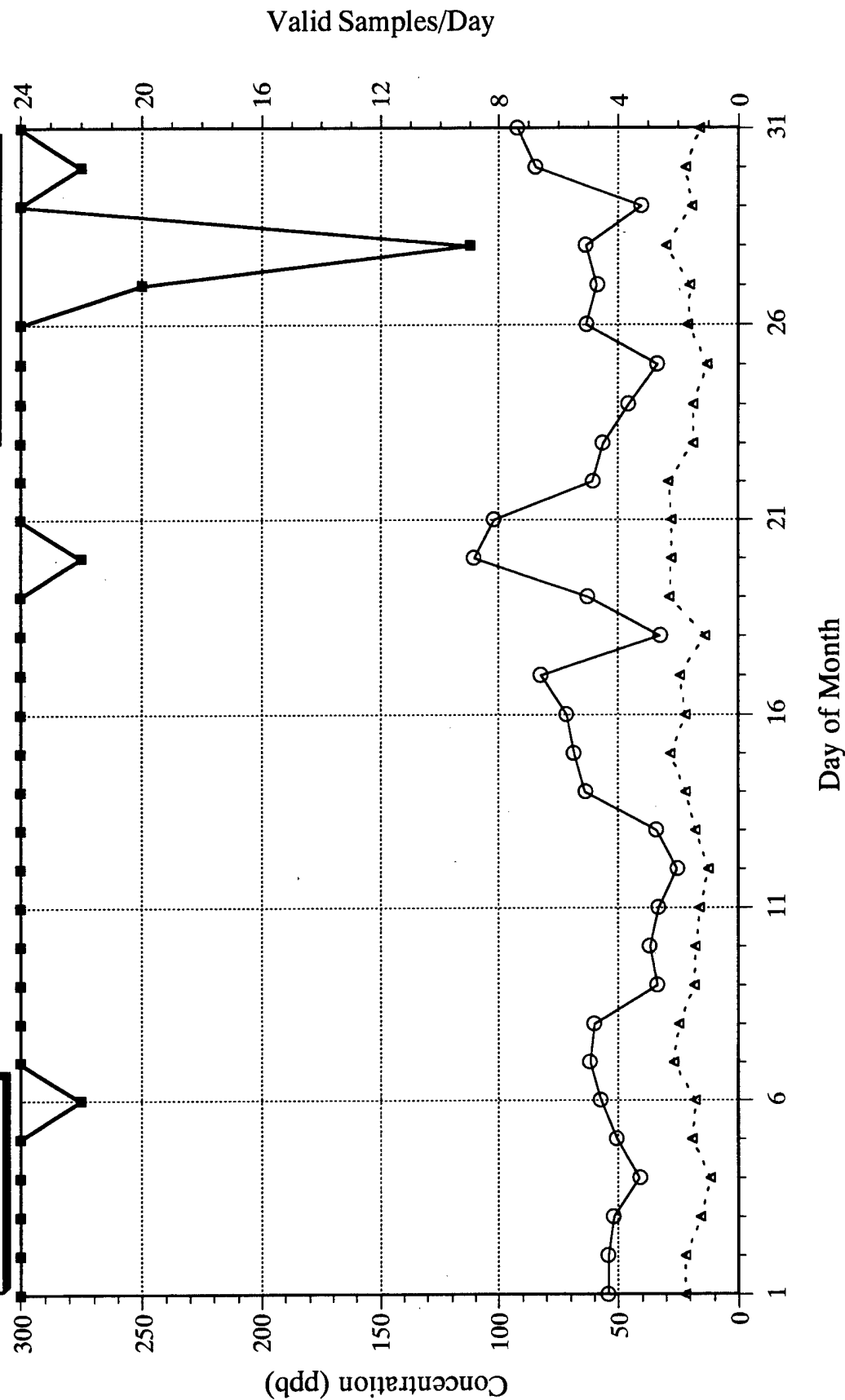
RMA-CAQMMP Oxides of Nitrogen  
Concentrations for July 1991

# Oxides of Nitrogen

August 1991

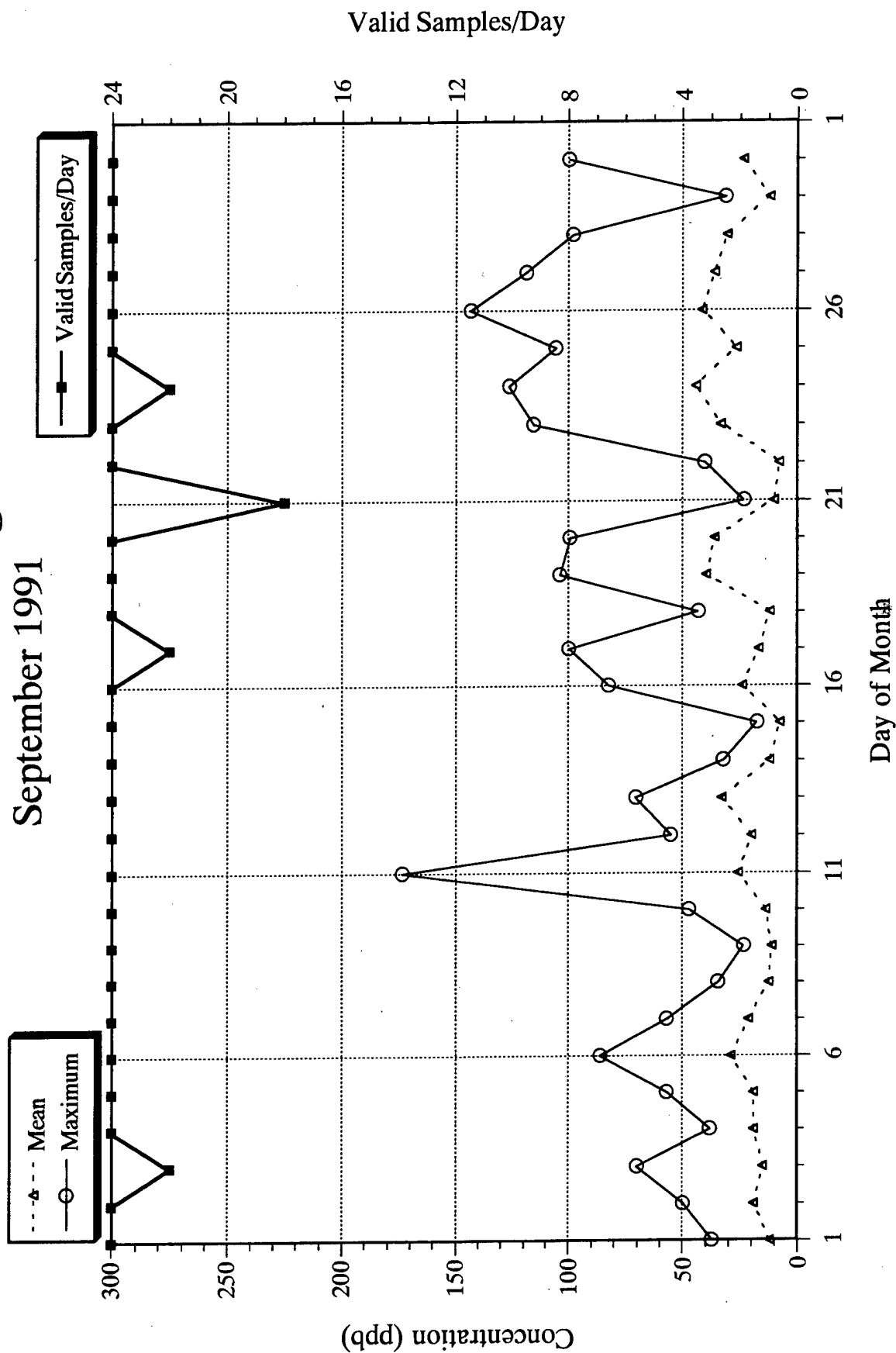
---△--- Mean  
—○— Maximum

—■— Valid Samples/Day



RMA-CAQMMP Oxides of Nitrogen  
Concentrations for August 1991

# Oxides of Nitrogen September 1991



RMA-CAQMMP Oxides of Nitrogen  
Concentrations for September 1991



APPENDIX I

METEOROLOGICAL DATA AND  
JOINT FREQUENCY DISTRIBUTION (ON DISKETTE)

- I1 Meteorological Data
- I2 Joint Frequency Distributions

## I1 METEOROLOGICAL DATA

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: RMA(COMPOSITE)

Period: 10/ 1/90 thru 10/31/90

Month and year of record: OCTOBER, 90

| WIND SPEED (MI/HR) |         |         |         |     | WIND DIRECTION (DEG) |         |         |     | SIGMA THETA (DEG) |         |         |     |
|--------------------|---------|---------|---------|-----|----------------------|---------|---------|-----|-------------------|---------|---------|-----|
| HR                 | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM              | MAXIMUM | AVERAGE | OBS | MINIMUM           | MAXIMUM | AVERAGE | OBS |
| 1                  | 3.02    | 20.53   | 8.72    | 31  | 14.49                | 355.90  | 192.29  | 31  | 2.08              | 46.92   | 14.82   | 31  |
| 2                  | 3.04    | 14.69   | 7.81    | 31  | 17.51                | 344.20  | 205.64  | 31  | 2.82              | 55.81   | 16.79   | 31  |
| 3                  | 2.82    | 21.08   | 7.99    | 31  | 10.64                | 342.10  | 203.00  | 31  | 1.98              | 43.17   | 13.11   | 31  |
| 4                  | 3.00    | 19.97   | 8.09    | 31  | 27.61                | 353.80  | 196.90  | 31  | 3.25              | 67.37   | 16.31   | 31  |
| 5                  | 2.74    | 21.84   | 8.50    | 31  | 17.90                | 329.20  | 188.29  | 31  | 3.28              | 75.40   | 15.27   | 31  |
| 6                  | 1.64    | 23.44   | 9.35    | 31  | 19.91                | 336.90  | 191.15  | 31  | 2.27              | 62.45   | 14.14   | 31  |
| 7                  | 2.06    | 17.38   | 9.07    | 31  | 9.57                 | 336.10  | 175.90  | 31  | 2.78              | 53.94   | 11.27   | 31  |
| 8                  | 2.72    | 18.06   | 8.89    | 31  | 14.73                | 332.60  | 178.41  | 31  | 2.22              | 38.98   | 11.88   | 31  |
| 9                  | 1.70    | 16.35   | 9.67    | 31  | 3.03                 | 334.60  | 180.69  | 31  | 3.46              | 68.95   | 14.55   | 31  |
| 10                 | 3.04    | 17.40   | 9.27    | 31  | 22.13                | 332.50  | 180.77  | 31  | 5.05              | 55.13   | 16.28   | 31  |
| 11                 | 3.78    | 15.70   | 8.02    | 30  | 6.13                 | 336.90  | 184.13  | 30  | 6.75              | 55.16   | 21.88   | 30  |
| 12                 | 2.87    | 14.67   | 7.73    | 30  | 2.48                 | 339.30  | 154.35  | 30  | 7.46              | 70.70   | 24.68   | 30  |
| 13                 | 2.31    | 18.89   | 8.01    | 30  | 6.48                 | 354.60  | 154.67  | 30  | 6.22              | 56.54   | 26.21   | 30  |
| 14                 | 3.57    | 21.34   | 8.43    | 30  | 4.66                 | 350.20  | 109.95  | 30  | 6.45              | 68.81   | 28.42   | 30  |
| 15                 | 2.85    | 23.29   | 7.95    | 30  | 16.19                | 340.20  | 90.01   | 30  | 5.43              | 59.48   | 29.62   | 30  |
| 16                 | 2.71    | 25.06   | 7.92    | 30  | 17.51                | 349.00  | 68.95   | 30  | 4.39              | 63.10   | 22.64   | 30  |
| 17                 | 1.28    | 24.33   | 8.40    | 30  | 21.11                | 348.00  | 67.13   | 30  | 5.91              | 51.22   | 17.40   | 30  |
| 18                 | 2.47    | 22.66   | 8.47    | 30  | 27.84                | 359.10  | 73.74   | 30  | 3.14              | 65.29   | 16.76   | 30  |
| 19                 | 2.17    | 18.27   | 8.19    | 30  | 15.65                | 358.60  | 129.61  | 30  | 3.70              | 60.75   | 22.85   | 30  |
| 20                 | 2.27    | 17.94   | 8.00    | 30  | 15.63                | 358.40  | 180.57  | 30  | 4.19              | 66.45   | 22.37   | 30  |
| 21                 | 1.91    | 21.29   | 8.21    | 30  | 2.17                 | 328.00  | 166.37  | 30  | 4.22              | 65.25   | 16.75   | 30  |
| 22                 | 3.49    | 18.64   | 8.55    | 30  | 16.32                | 317.10  | 186.32  | 30  | 3.73              | 52.91   | 15.54   | 30  |
| 23                 | 3.38    | 23.26   | 8.63    | 30  | 15.06                | 334.30  | 177.65  | 30  | 3.34              | 44.63   | 13.78   | 30  |
| 24                 | 2.81    | 20.15   | 9.09    | 30  | 5.71                 | 357.00  | 186.62  | 30  | 2.67              | 46.24   | 12.29   | 30  |
|                    | 1.28    | 25.06   | 8.46    | 730 | 2.17                 | 359.10  | 177.63  | 730 | 1.98              | 75.40   | 18.15   | 730 |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: RMA(COMPOSITE)

Period: 10/ 1/90 thru 10/31/90

Month and year of record: OCTOBER, 90

| TEMPERATURE (DEG F) |         |         |         |     | PRESSURE (IN. HG) |         |         |     | PRECIPITATION (IN) |         |       |     |
|---------------------|---------|---------|---------|-----|-------------------|---------|---------|-----|--------------------|---------|-------|-----|
| HR                  | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM           | MAXIMUM | AVERAGE | OBS | MINIMUM            | MAXIMUM | TOTAL | OBS |
| 1                   | 28.29   | 60.42   | 45.24   | 31  | 24.54             | 25.02   | 24.76   | 31  | 0.00               | 0.04    | 0.08  | 31  |
| 2                   | 28.09   | 60.38   | 44.85   | 31  | 24.54             | 25.02   | 24.76   | 31  | 0.00               | 0.05    | 0.05  | 31  |
| 3                   | 28.06   | 61.67   | 44.18   | 31  | 24.54             | 25.02   | 24.76   | 31  | 0.00               | 0.01    | 0.01  | 31  |
| 4                   | 27.88   | 60.59   | 43.58   | 31  | 24.51             | 25.04   | 24.76   | 31  | 0.00               | 0.00    | 0.00  | 31  |
| 5                   | 27.78   | 60.24   | 42.93   | 31  | 24.50             | 25.06   | 24.77   | 31  | 0.00               | 0.00    | 0.00  | 31  |
| 6                   | 27.08   | 60.51   | 42.62   | 31  | 24.49             | 25.07   | 24.77   | 31  | 0.00               | 0.00    | 0.00  | 31  |
| 7                   | 26.97   | 59.63   | 42.88   | 31  | 24.49             | 25.09   | 24.77   | 31  | 0.00               | 0.00    | 0.00  | 31  |
| 8                   | 28.64   | 63.32   | 45.61   | 31  | 24.47             | 25.10   | 24.78   | 31  | 0.00               | 0.00    | 0.00  | 31  |
| 9                   | 29.74   | 66.18   | 50.40   | 31  | 24.44             | 25.11   | 24.77   | 29  | 0.00               | 0.02    | 0.02  | 31  |
| 10                  | 30.35   | 71.40   | 54.27   | 31  | 24.41             | 25.10   | 24.77   | 31  | 0.00               | 0.00    | 0.00  | 31  |
| 11                  | 30.90   | 76.50   | 57.47   | 30  | 24.37             | 25.09   | 24.75   | 30  | 0.00               | 0.00    | 0.00  | 30  |
| 12                  | 32.20   | 80.20   | 59.93   | 30  | 24.32             | 25.06   | 24.73   | 30  | 0.00               | 0.00    | 0.00  | 30  |
| 13                  | 32.53   | 81.70   | 61.43   | 30  | 24.29             | 25.01   | 24.71   | 30  | 0.00               | 0.06    | 0.09  | 30  |
| 14                  | 33.39   | 82.80   | 62.44   | 30  | 24.31             | 24.98   | 24.69   | 30  | 0.00               | 0.12    | 0.12  | 30  |
| 15                  | 34.38   | 82.40   | 62.87   | 30  | 24.35             | 24.97   | 24.69   | 30  | 0.00               | 0.02    | 0.02  | 30  |
| 16                  | 35.66   | 82.30   | 62.57   | 30  | 24.35             | 24.95   | 24.68   | 30  | 0.00               | 0.01    | 0.01  | 30  |
| 17                  | 35.11   | 81.40   | 60.80   | 30  | 24.34             | 24.95   | 24.68   | 30  | 0.00               | 0.00    | 0.00  | 30  |
| 18                  | 33.07   | 78.80   | 57.23   | 30  | 24.34             | 24.96   | 24.70   | 30  | 0.00               | 0.00    | 0.00  | 30  |
| 19                  | 32.50   | 75.40   | 54.27   | 30  | 24.35             | 24.97   | 24.72   | 30  | 0.00               | 0.00    | 0.00  | 30  |
| 20                  | 30.90   | 70.50   | 52.33   | 30  | 24.37             | 24.99   | 24.72   | 30  | 0.00               | 0.04    | 0.04  | 30  |
| 21                  | 30.22   | 69.31   | 50.31   | 30  | 24.39             | 25.01   | 24.74   | 30  | 0.00               | 0.00    | 0.00  | 30  |
| 22                  | 29.74   | 66.00   | 48.29   | 30  | 24.41             | 25.02   | 24.75   | 30  | 0.00               | 0.02    | 0.02  | 30  |
| 23                  | 29.31   | 62.36   | 46.79   | 30  | 24.46             | 25.02   | 24.75   | 30  | 0.00               | 0.05    | 0.05  | 30  |
| 24                  | 28.82   | 60.85   | 45.67   | 30  | 24.50             | 25.02   | 24.75   | 30  | 0.00               | 0.05    | 0.06  | 30  |
|                     | 26.97   | 82.80   | 51.62   | 730 | 24.29             | 25.11   | 24.74   | 728 | 0.00               | 0.12    | 0.57  | 730 |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: RMA(COMPOSITE)

Period: 10/ 1/90 thru 10/31/90

Month and year of record: OCTOBER, 90

| SOLAR RADIATION (LY/YR) |         |         |         |     |
|-------------------------|---------|---------|---------|-----|
| HR                      | MINIMUM | MAXIMUM | AVERAGE | OBS |
| 1                       | -0.01   | 0.00    | -0.01   | 31  |
| 2                       | -0.01   | 0.00    | -0.01   | 31  |
| 3                       | -0.01   | 0.00    | -0.01   | 31  |
| 4                       | -0.01   | 0.00    | -0.01   | 31  |
| 5                       | -0.01   | 0.00    | -0.01   | 31  |
| 6                       | -0.01   | 0.00    | -0.01   | 31  |
| 7                       | 0.00    | 0.13    | 0.04    | 31  |
| 8                       | 0.04    | 0.44    | 0.23    | 31  |
| 9                       | 0.08    | 0.81    | 0.47    | 31  |
| 10                      | 0.15    | 0.93    | 0.69    | 31  |
| 11                      | 0.14    | 1.16    | 0.84    | 30  |
| 12                      | 0.13    | 1.19    | 0.91    | 30  |
| 13                      | 0.08    | 1.18    | 0.84    | 30  |
| 14                      | 0.11    | 1.03    | 0.73    | 30  |
| 15                      | 0.05    | 0.80    | 0.54    | 30  |
| 16                      | 0.04    | 0.51    | 0.29    | 30  |
| 17                      | 0.01    | 0.26    | 0.10    | 30  |
| 18                      | -0.02   | 0.01    | -0.00   | 30  |
| 19                      | -0.01   | 0.00    | -0.01   | 30  |
| 20                      | -0.01   | 0.00    | -0.01   | 30  |
| 21                      | -0.01   | 0.00    | -0.01   | 30  |
| 22                      | -0.01   | 0.00    | -0.01   | 30  |
| 23                      | -0.01   | 0.00    | -0.01   | 30  |
| 24                      | -0.01   | 0.00    | -0.01   | 30  |
|                         | -0.02   | 1.19    | 0.23    | 730 |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: RMA(COMPOSITE)

Period: 11/26/90 thru 11/30/90

Month and year of record: NOVEMBER, 90

| WIND SPEED (MI/HR) |         |         |         |     | WIND DIRECTION (DEG) |         |         |     | SIGMA THETA (DEG) |         |         |     |
|--------------------|---------|---------|---------|-----|----------------------|---------|---------|-----|-------------------|---------|---------|-----|
| HR                 | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM              | MAXIMUM | AVERAGE | OBS | MINIMUM           | MAXIMUM | AVERAGE | OBS |
| 1                  | 7.51    | 18.35   | 12.40   | 4   | 8.90                 | 250.70  | 206.01  | 4   | 3.81              | 12.98   | 8.15    | 4   |
| 2                  | 7.85    | 15.53   | 12.53   | 4   | 10.76                | 244.60  | 209.65  | 4   | 3.51              | 10.98   | 6.64    | 4   |
| 3                  | 7.71    | 12.62   | 10.43   | 4   | 184.00               | 353.10  | 217.45  | 4   | 3.32              | 13.64   | 6.59    | 4   |
| 4                  | 4.79    | 11.71   | 9.15    | 4   | 184.30               | 341.30  | 225.80  | 4   | 2.85              | 8.56    | 5.77    | 4   |
| 5                  | 2.70    | 11.76   | 7.32    | 4   | 190.90               | 335.80  | 233.21  | 4   | 6.31              | 21.59   | 10.90   | 4   |
| 6                  | 2.33    | 13.42   | 8.15    | 4   | 199.50               | 245.20  | 224.95  | 4   | 5.63              | 26.27   | 18.20   | 4   |
| 7                  | 2.89    | 11.70   | 8.46    | 5   | 208.10               | 249.00  | 228.42  | 5   | 5.50              | 29.66   | 18.42   | 5   |
| 8                  | 3.12    | 9.17    | 6.78    | 5   | 179.60               | 235.70  | 203.99  | 5   | 6.44              | 20.39   | 12.01   | 5   |
| 9                  | 4.30    | 15.12   | 7.61    | 5   | 167.00               | 270.90  | 197.28  | 5   | 6.01              | 29.13   | 17.25   | 5   |
| 10                 | 4.01    | 15.81   | 8.08    | 5   | 176.40               | 321.60  | 203.93  | 5   | 4.40              | 20.70   | 11.52   | 5   |
| 11                 | 1.17    | 11.91   | 6.32    | 5   | 37.55                | 302.50  | 201.38  | 5   | 4.43              | 48.41   | 22.93   | 5   |
| 12                 | 3.28    | 11.23   | 6.80    | 5   | 54.72                | 263.30  | 206.57  | 5   | 7.25              | 63.79   | 34.91   | 5   |
| 13                 | 7.19    | 12.32   | 8.91    | 5   | 57.63                | 327.40  | 328.06  | 5   | 7.65              | 53.64   | 28.80   | 5   |
| 14                 | 4.08    | 12.84   | 7.27    | 5   | 87.20                | 330.90  | 316.39  | 5   | 5.80              | 48.67   | 21.93   | 5   |
| 15                 | 3.94    | 18.36   | 9.66    | 5   | 36.33                | 297.70  | 272.75  | 5   | 6.41              | 71.30   | 35.22   | 5   |
| 16                 | 6.45    | 20.82   | 14.39   | 5   | 52.44                | 298.00  | 258.89  | 5   | 5.32              | 14.94   | 8.88    | 5   |
| 17                 | 6.17    | 22.00   | 13.41   | 5   | 58.85                | 289.90  | 200.32  | 5   | 3.96              | 56.22   | 17.87   | 5   |
| 18                 | 5.82    | 18.95   | 11.97   | 5   | 22.67                | 295.40  | 254.45  | 5   | 4.99              | 59.13   | 31.63   | 5   |
| 19                 | 5.77    | 20.30   | 12.36   | 5   | 27.41                | 272.60  | 289.60  | 5   | 4.87              | 67.60   | 25.35   | 5   |
| 20                 | 5.20    | 16.31   | 10.95   | 5   | 43.90                | 249.90  | 208.13  | 5   | 6.71              | 62.71   | 24.83   | 5   |
| 21                 | 7.45    | 17.45   | 10.58   | 5   | 29.72                | 250.20  | 204.50  | 5   | 4.43              | 32.74   | 17.15   | 5   |
| 22                 | 6.96    | 13.82   | 9.89    | 5   | 41.15                | 261.80  | 175.31  | 5   | 4.55              | 26.01   | 14.61   | 5   |
| 23                 | 8.55    | 12.81   | 11.27   | 5   | 51.24                | 258.40  | 172.80  | 5   | 5.76              | 24.56   | 11.77   | 5   |
| 24                 | 8.76    | 15.85   | 12.11   | 5   | 44.27                | 256.20  | 162.06  | 5   | 5.00              | 15.08   | 11.94   | 5   |
| 1.17               | 22.00   | 9.87    | 114     |     | 8.90                 | 353.10  | 215.99  | 114 | 2.85              | 71.30   | 17.64   | 114 |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: RMA(COMPOSITE)

Period: 11/26/90 thru 11/30/90

Month and year of record: NOVEMBER, 90

| TEMPERATURE (DEG F) |         |         |         |     | PRESSURE (IN. HG) |         |         |     | PRECIPITATION (IN) |         |       |     |
|---------------------|---------|---------|---------|-----|-------------------|---------|---------|-----|--------------------|---------|-------|-----|
| HR                  | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM           | MAXIMUM | AVERAGE | OBS | MINIMUM            | MAXIMUM | TOTAL | OBS |
| 1                   | 19.32   | 48.10   | 29.53   | 4   | 24.43             | 25.05   | 24.73   | 4   | 0.00               | 0.01    | 0.01  | 4   |
| 2                   | 18.79   | 49.88   | 29.79   | 4   | 24.43             | 25.05   | 24.74   | 2   | 0.00               | 0.00    | 0.00  | 4   |
| 3                   | 18.61   | 51.06   | 30.32   | 4   | 24.44             | 25.05   | 24.73   | 4   | 0.00               | 0.01    | 0.01  | 4   |
| 4                   | 18.48   | 49.84   | 30.04   | 4   | 24.44             | 25.05   | 24.74   | 4   | 0.00               | 0.00    | 0.00  | 4   |
| 5                   | 18.57   | 47.52   | 29.06   | 4   | 24.45             | 25.05   | 24.75   | 4   | 0.00               | 0.00    | 0.00  | 4   |
| 6                   | 18.65   | 44.21   | 28.66   | 4   | 24.47             | 25.04   | 24.75   | 4   | 0.00               | 0.00    | 0.00  | 4   |
| 7                   | 18.95   | 45.34   | 31.70   | 5   | 24.22             | 25.03   | 24.65   | 5   | 0.00               | 0.00    | 0.00  | 5   |
| 8                   | 20.33   | 44.97   | 31.89   | 5   | 24.23             | 25.02   | 24.67   | 5   | 0.00               | 0.00    | 0.00  | 5   |
| 9                   | 23.02   | 47.91   | 35.46   | 5   | 24.23             | 25.01   | 24.67   | 5   | 0.00               | 0.01    | 0.01  | 5   |
| 10                  | 24.01   | 49.94   | 38.58   | 5   | 24.22             | 24.99   | 24.67   | 5   | 0.00               | 0.00    | 0.00  | 5   |
| 11                  | 28.48   | 52.85   | 41.88   | 5   | 24.22             | 24.97   | 24.66   | 5   | 0.00               | 0.00    | 0.00  | 5   |
| 12                  | 25.83   | 56.12   | 43.07   | 5   | 24.20             | 24.95   | 24.66   | 5   | 0.00               | 0.00    | 0.00  | 5   |
| 13                  | 25.55   | 57.53   | 43.27   | 5   | 24.18             | 24.95   | 24.64   | 5   | 0.00               | 0.00    | 0.00  | 5   |
| 14                  | 26.90   | 58.20   | 44.16   | 5   | 24.17             | 24.95   | 24.64   | 5   | 0.00               | 0.00    | 0.00  | 5   |
| 15                  | 27.00   | 58.64   | 44.14   | 5   | 24.17             | 24.95   | 24.63   | 5   | 0.00               | 0.00    | 0.00  | 5   |
| 16                  | 26.40   | 57.32   | 42.39   | 5   | 24.21             | 24.96   | 24.64   | 5   | 0.00               | 0.00    | 0.00  | 5   |
| 17                  | 25.72   | 55.23   | 40.14   | 5   | 24.27             | 24.97   | 24.66   | 5   | 0.00               | 0.00    | 0.00  | 5   |
| 18                  | 26.09   | 52.63   | 38.06   | 5   | 24.32             | 24.98   | 24.68   | 5   | 0.00               | 0.00    | 0.00  | 5   |
| 19                  | 29.74   | 52.16   | 37.48   | 5   | 24.36             | 25.01   | 24.71   | 5   | 0.00               | 0.00    | 0.00  | 5   |
| 20                  | 27.49   | 50.19   | 35.77   | 5   | 24.39             | 25.03   | 24.72   | 5   | 0.00               | 0.00    | 0.00  | 5   |
| 21                  | 24.04   | 48.11   | 33.36   | 5   | 24.39             | 25.05   | 24.73   | 5   | 0.00               | 0.00    | 0.00  | 5   |
| 22                  | 22.23   | 44.70   | 32.25   | 5   | 24.41             | 25.05   | 24.74   | 4   | 0.00               | 0.00    | 0.00  | 5   |
| 23                  | 21.41   | 46.78   | 31.72   | 5   | 24.41             | 25.05   | 24.74   | 4   | 0.00               | 0.00    | 0.00  | 5   |
| 24                  | 20.66   | 46.36   | 31.37   | 5   | 24.43             | 25.05   | 24.74   | 5   | 0.00               | 0.01    | 0.01  | 5   |
| 18.48               | 58.64   | 35.59   | 114     |     | 24.17             | 25.05   | 24.70   | 110 | 0.00               | 0.01    | 0.04  | 114 |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: RMA(COMPOSITE)

Period: 12/ 1/90 thru 12/31/90

Month and year of record: DECEMBER, 90

| WIND SPEED (MI/HR) |         |         |         |     | WIND DIRECTION (DEG) |         |         |     | SIGMA THETA (DEG) |         |         |     |
|--------------------|---------|---------|---------|-----|----------------------|---------|---------|-----|-------------------|---------|---------|-----|
| HR                 | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM              | MAXIMUM | AVERAGE | OBS | MINIMUM           | MAXIMUM | AVERAGE | OBS |
| 1                  | 2.59    | 15.09   | 7.33    | 31  | 37.51                | 349.50  | 165.20  | 31  | 1.98              | 62.67   | 20.19   | 31  |
| 2                  | 2.88    | 15.19   | 7.34    | 31  | 5.02                 | 304.10  | 165.82  | 31  | 2.54              | 52.12   | 16.85   | 31  |
| 3                  | 2.31    | 13.65   | 7.44    | 31  | 4.23                 | 352.50  | 185.43  | 31  | 2.08              | 69.14   | 21.70   | 31  |
| 4                  | 2.74    | 13.07   | 6.87    | 31  | 26.80                | 332.00  | 184.12  | 31  | 2.48              | 60.77   | 20.24   | 31  |
| 5                  | 2.31    | 12.33   | 7.05    | 31  | 16.81                | 347.60  | 189.82  | 31  | 2.12              | 57.92   | 23.01   | 31  |
| 6                  | 1.99    | 15.28   | 7.41    | 31  | 14.21                | 359.00  | 169.10  | 31  | 2.50              | 71.30   | 19.03   | 31  |
| 7                  | 3.22    | 14.77   | 7.97    | 31  | 8.23                 | 341.20  | 194.66  | 31  | 2.38              | 48.09   | 17.49   | 31  |
| 8                  | 1.75    | 15.35   | 7.67    | 31  | 3.50                 | 349.80  | 179.91  | 31  | 2.37              | 65.24   | 18.10   | 31  |
| 9                  | 2.68    | 15.95   | 7.74    | 31  | 0.60                 | 351.20  | 188.97  | 31  | 3.22              | 65.50   | 20.79   | 31  |
| 10                 | 2.85    | 14.15   | 7.78    | 31  | 22.86                | 354.20  | 174.15  | 31  | 3.90              | 59.20   | 17.86   | 31  |
| 11                 | 2.76    | 19.10   | 7.55    | 31  | 35.25                | 358.10  | 214.70  | 31  | 6.01              | 71.90   | 20.91   | 31  |
| 12                 | 2.42    | 34.61   | 7.38    | 31  | 9.48                 | 351.40  | 194.71  | 31  | 5.37              | 72.00   | 27.59   | 31  |
| 13                 | 2.09    | 31.67   | 8.11    | 31  | 26.90                | 350.60  | 94.49   | 31  | 6.72              | 76.50   | 25.14   | 31  |
| 14                 | 2.33    | 25.81   | 9.13    | 31  | 15.97                | 336.40  | 64.98   | 31  | 5.86              | 60.55   | 21.60   | 31  |
| 15                 | 1.99    | 29.59   | 10.11   | 31  | 9.09                 | 326.90  | 57.32   | 31  | 5.83              | 45.95   | 18.46   | 31  |
| 16                 | 2.29    | 29.67   | 10.33   | 31  | 2.04                 | 345.30  | 59.89   | 31  | 3.35              | 58.14   | 15.58   | 31  |
| 17                 | 2.61    | 23.68   | 9.75    | 31  | 4.00                 | 356.00  | 38.91   | 31  | 3.72              | 35.86   | 14.87   | 31  |
| 18                 | 2.33    | 20.51   | 8.39    | 31  | 2.81                 | 358.10  | 66.96   | 31  | 4.05              | 61.83   | 18.79   | 31  |
| 19                 | 2.16    | 19.72   | 8.12    | 31  | 1.11                 | 359.60  | 105.14  | 31  | 2.97              | 69.00   | 18.26   | 31  |
| 20                 | 2.41    | 21.07   | 7.46    | 31  | 10.57                | 309.10  | 186.58  | 31  | 4.11              | 50.71   | 19.12   | 31  |
| 21                 | 2.26    | 30.49   | 7.88    | 31  | 40.10                | 305.40  | 176.78  | 31  | 3.99              | 75.80   | 15.80   | 31  |
| 22                 | 2.05    | 29.04   | 8.00    | 31  | 45.93                | 349.60  | 187.36  | 31  | 2.83              | 43.06   | 12.09   | 31  |
| 23                 | 2.54    | 19.90   | 8.29    | 31  | 14.85                | 341.20  | 180.88  | 31  | 3.43              | 68.64   | 16.83   | 31  |
| 24                 | 3.26    | 15.32   | 8.17    | 31  | 8.28                 | 358.90  | 182.31  | 31  | 2.09              | 41.14   | 16.02   | 31  |
|                    | 1.75    | 34.61   | 8.05    | 744 | 0.60                 | 359.60  | 165.38  | 744 | 1.98              | 76.50   | 19.01   | 744 |



WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: RMA(COMPOSITE)

Period: 12/ 1/90 thru 12/31/90

Month and year of record: DECEMBER, 90

| TEMPERATURE (DEG F) |         |         |         |     | PRESSURE (IN. HG) |         |         |     | PRECIPITATION (IN) |         |       |     |
|---------------------|---------|---------|---------|-----|-------------------|---------|---------|-----|--------------------|---------|-------|-----|
| HR                  | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM           | MAXIMUM | AVERAGE | OBS | MINIMUM            | MAXIMUM | TOTAL | OBS |
| 1                   | -17.88  | 50.82   | 20.81   | 31  | 24.38             | 25.00   | 24.70   | 31  | 0.00               | 0.00    | 0.00  | 31  |
| 2                   | -19.60  | 47.66   | 20.25   | 31  | 24.38             | 25.00   | 24.70   | 31  | 0.00               | 0.00    | 0.00  | 31  |
| 3                   | -19.41  | 41.67   | 19.71   | 31  | 24.36             | 25.01   | 24.70   | 30  | 0.00               | 0.00    | 0.00  | 31  |
| 4                   | -20.32  | 41.76   | 19.18   | 31  | 24.33             | 25.01   | 24.70   | 30  | 0.00               | 0.00    | 0.00  | 31  |
| 5                   | -20.73  | 42.49   | 18.88   | 31  | 24.31             | 25.01   | 24.69   | 31  | 0.00               | 0.00    | 0.00  | 31  |
| 6                   | -20.56  | 40.88   | 18.51   | 31  | 24.29             | 25.02   | 24.69   | 31  | 0.00               | 0.00    | 0.00  | 31  |
| 7                   | -20.55  | 41.35   | 18.87   | 31  | 24.28             | 25.04   | 24.70   | 31  | 0.00               | 0.00    | 0.00  | 31  |
| 8                   | -23.20  | 41.50   | 18.85   | 31  | 24.31             | 25.05   | 24.70   | 31  | 0.00               | 0.00    | 0.00  | 31  |
| 9                   | -22.02  | 44.93   | 20.77   | 31  | 24.31             | 25.05   | 24.71   | 31  | 0.00               | 0.00    | 0.00  | 31  |
| 10                  | -18.48  | 51.41   | 24.13   | 31  | 24.32             | 25.05   | 24.71   | 31  | 0.00               | 0.00    | 0.00  | 31  |
| 11                  | -15.64  | 58.87   | 28.11   | 31  | 24.33             | 25.05   | 24.71   | 30  | 0.00               | 0.05    | 0.07  | 31  |
| 12                  | -12.46  | 63.15   | 31.64   | 31  | 24.34             | 25.03   | 24.69   | 31  | 0.00               | 0.03    | 0.05  | 31  |
| 13                  | -11.93  | 65.40   | 33.15   | 31  | 24.31             | 25.01   | 24.67   | 30  | 0.00               | 0.02    | 0.02  | 31  |
| 14                  | -12.25  | 66.20   | 34.16   | 31  | 24.29             | 24.98   | 24.66   | 31  | 0.00               | 0.00    | 0.00  | 31  |
| 15                  | -13.86  | 66.61   | 34.23   | 31  | 24.28             | 24.97   | 24.65   | 31  | 0.00               | 0.00    | 0.00  | 31  |
| 16                  | -14.22  | 65.76   | 33.00   | 31  | 24.30             | 24.97   | 24.66   | 31  | 0.00               | 0.00    | 0.00  | 31  |
| 17                  | -14.62  | 61.69   | 30.15   | 31  | 24.34             | 24.98   | 24.67   | 31  | 0.00               | 0.00    | 0.00  | 31  |
| 18                  | -14.51  | 60.33   | 27.24   | 31  | 24.35             | 24.99   | 24.69   | 31  | 0.00               | 0.00    | 0.00  | 31  |
| 19                  | -14.34  | 57.40   | 24.73   | 31  | 24.35             | 24.99   | 24.70   | 31  | 0.00               | 0.00    | 0.00  | 31  |
| 20                  | -14.79  | 55.77   | 23.63   | 31  | 24.37             | 24.98   | 24.71   | 31  | 0.00               | 0.00    | 0.00  | 31  |
| 21                  | -15.95  | 57.00   | 23.04   | 31  | 24.38             | 24.98   | 24.71   | 31  | 0.00               | 0.00    | 0.00  | 31  |
| 22                  | -16.58  | 54.77   | 22.19   | 31  | 24.38             | 24.98   | 24.71   | 30  | 0.00               | 0.00    | 0.00  | 31  |
| 23                  | -16.81  | 55.85   | 21.68   | 31  | 24.38             | 24.98   | 24.71   | 31  | 0.00               | 0.00    | 0.00  | 31  |
| 24                  | -17.27  | 52.92   | 21.35   | 31  | 24.38             | 24.99   | 24.71   | 30  | 0.00               | 0.00    | 0.00  | 31  |
|                     | -23.20  | 66.61   | 24.51   | 744 | 24.28             | 25.05   | 24.69   | 738 | 0.00               | 0.05    | 0.14  | 744 |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: RMA(COMPOSITE)

Period: 1/21/91 thru 1/31/91

Month and year of record: JANUARY, 91

| WIND SPEED (M/SEC) |         |         |         |     | WIND DIRECTION (DEG) |         |         |     | SIGMA THETA (DEG) |         |         |     |
|--------------------|---------|---------|---------|-----|----------------------|---------|---------|-----|-------------------|---------|---------|-----|
| HR                 | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM              | MAXIMUM | AVERAGE | OBS | MINIMUM           | MAXIMUM | AVERAGE | OBS |
| 1                  | 3.23    | 22.61   | 10.92   | 10  | 9.70                 | 300.70  | 203.85  | 10  | 3.13              | 65.10   | 15.65   | 10  |
| 2                  | 2.44    | 15.87   | 9.40    | 10  | 15.64                | 314.20  | 205.81  | 10  | 2.15              | 59.33   | 21.53   | 10  |
| 3                  | 4.07    | 12.80   | 8.29    | 10  | 15.11                | 353.30  | 231.79  | 10  | 4.81              | 32.93   | 13.18   | 10  |
| 4                  | 4.31    | 13.28   | 7.95    | 10  | 15.89                | 333.90  | 200.09  | 10  | 5.98              | 38.89   | 15.73   | 10  |
| 5                  | 4.07    | 15.09   | 8.36    | 10  | 31.14                | 303.40  | 215.79  | 10  | 7.72              | 40.54   | 19.24   | 10  |
| 6                  | 5.71    | 12.88   | 7.35    | 10  | 57.70                | 207.30  | 167.11  | 10  | 3.10              | 64.06   | 24.31   | 10  |
| 7                  | 2.84    | 14.19   | 7.62    | 10  | 56.07                | 219.90  | 168.32  | 10  | 6.12              | 75.40   | 22.56   | 10  |
| 8                  | 2.36    | 13.60   | 8.18    | 10  | 98.60                | 227.40  | 178.50  | 10  | 4.35              | 66.62   | 17.70   | 10  |
| 9                  | 2.47    | 11.23   | 6.85    | 10  | 55.00                | 238.60  | 168.73  | 10  | 5.19              | 68.36   | 19.01   | 10  |
| 10                 | 4.82    | 12.31   | 6.77    | 10  | 84.50                | 352.10  | 177.62  | 10  | 5.72              | 38.46   | 16.49   | 10  |
| 11                 | 3.17    | 14.58   | 7.68    | 10  | 23.69                | 346.50  | 119.70  | 10  | 5.53              | 67.72   | 24.92   | 10  |
| 12                 | 4.63    | 12.65   | 7.46    | 10  | 9.87                 | 353.40  | 175.25  | 10  | 5.31              | 66.18   | 21.81   | 10  |
| 13                 | 2.67    | 16.32   | 7.85    | 10  | 10.20                | 287.10  | 89.96   | 10  | 7.68              | 78.00   | 25.61   | 10  |
| 14                 | 2.58    | 16.31   | 8.66    | 10  | 28.85                | 279.30  | 114.65  | 10  | 6.26              | 61.81   | 21.65   | 10  |
| 15                 | 2.17    | 15.95   | 7.70    | 10  | 22.35                | 289.30  | 99.81   | 10  | 3.44              | 52.16   | 21.80   | 10  |
| 16                 | 1.88    | 13.09   | 7.07    | 11  | 22.14                | 303.00  | 89.03   | 11  | 4.79              | 42.58   | 17.38   | 11  |
| 17                 | 2.16    | 12.81   | 6.67    | 11  | 4.40                 | 332.40  | 86.36   | 11  | 5.47              | 64.06   | 21.97   | 11  |
| 18                 | 3.08    | 23.91   | 9.25    | 11  | 28.60                | 342.20  | 218.38  | 11  | 3.80              | 24.28   | 14.02   | 11  |
| 19                 | 2.54    | 25.59   | 8.96    | 11  | 15.62                | 341.50  | 273.10  | 11  | 5.93              | 53.02   | 20.19   | 11  |
| 20                 | 3.50    | 21.12   | 8.83    | 11  | 14.89                | 355.10  | 269.60  | 11  | 4.09              | 46.53   | 22.21   | 11  |
| 21                 | 1.43    | 21.48   | 9.91    | 11  | 7.08                 | 311.30  | 221.48  | 11  | 2.66              | 51.97   | 17.27   | 11  |
| 22                 | 1.90    | 20.37   | 8.68    | 11  | 23.82                | 341.30  | 263.78  | 11  | 5.79              | 46.07   | 23.17   | 11  |
| 23                 | 1.74    | 20.19   | 10.11   | 11  | 24.30                | 345.50  | 208.58  | 11  | 3.47              | 64.14   | 17.38   | 11  |
| 24                 | 2.68    | 24.80   | 10.99   | 11  | 10.59                | 292.20  | 186.63  | 11  | 3.25              | 43.37   | 16.07   | 11  |
| 1.43               | 25.59   | 8.40    | 249     |     | 4.40                 | 355.10  | 176.37  | 249 | 2.15              | 78.00   | 19.62   | 249 |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: RMA(COMPOSITE)

Period: 1/21/91 thru 1/31/91

Month and year of record: JANUARY, 91

| TEMPERATURE (DEG F) |         |         |         |     | PRESSURE (IN. HG) |         |         |     | PRECIPITATION (IN) |         |       |     |
|---------------------|---------|---------|---------|-----|-------------------|---------|---------|-----|--------------------|---------|-------|-----|
| HR                  | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM           | MAXIMUM | AVERAGE | OBS | MINIMUM            | MAXIMUM | TOTAL | OBS |
| 1                   | 3.04    | 36.25   | 19.54   | 10  | 24.37             | 24.75   | 24.58   | 10  | 0.00               | 0.00    | 0.00  | 10  |
| 2                   | 0.52    | 38.71   | 20.04   | 10  | 24.37             | 24.75   | 24.58   | 10  | 0.00               | 0.00    | 0.00  | 10  |
| 3                   | -0.80   | 42.40   | 19.85   | 10  | 24.36             | 24.76   | 24.58   | 10  | 0.00               | 0.00    | 0.00  | 10  |
| 4                   | -0.22   | 36.20   | 19.36   | 10  | 24.36             | 24.78   | 24.58   | 10  | 0.00               | 0.00    | 0.00  | 10  |
| 5                   | -1.25   | 34.55   | 19.66   | 10  | 24.35             | 24.80   | 24.58   | 10  | 0.00               | 0.00    | 0.00  | 10  |
| 6                   | -1.69   | 37.31   | 18.32   | 10  | 24.32             | 24.82   | 24.59   | 10  | 0.00               | 0.00    | 0.00  | 10  |
| 7                   | -2.03   | 40.00   | 17.28   | 10  | 24.32             | 24.83   | 24.59   | 10  | 0.00               | 0.00    | 0.00  | 10  |
| 8                   | -2.18   | 30.54   | 16.65   | 10  | 24.32             | 24.84   | 24.60   | 10  | 0.00               | 0.00    | 0.00  | 10  |
| 9                   | -1.04   | 37.61   | 18.22   | 10  | 24.33             | 24.85   | 24.60   | 10  | 0.00               | 0.00    | 0.00  | 10  |
| 10                  | 0.80    | 42.55   | 21.37   | 10  | 24.33             | 24.85   | 24.60   | 10  | 0.00               | 0.00    | 0.00  | 10  |
| 11                  | 2.87    | 44.65   | 25.81   | 10  | 24.32             | 24.83   | 24.60   | 10  | 0.00               | 0.00    | 0.00  | 10  |
| 12                  | 4.46    | 47.38   | 28.14   | 10  | 24.31             | 24.84   | 24.58   | 10  | 0.00               | 0.00    | 0.00  | 10  |
| 13                  | 6.08    | 49.85   | 30.28   | 10  | 24.30             | 24.82   | 24.56   | 10  | 0.00               | 0.00    | 0.00  | 10  |
| 14                  | 8.57    | 48.33   | 31.38   | 10  | 24.27             | 24.80   | 24.54   | 10  | 0.00               | 0.00    | 0.00  | 10  |
| 15                  | 10.91   | 48.91   | 32.03   | 10  | 24.26             | 24.79   | 24.53   | 10  | 0.00               | 0.00    | 0.00  | 10  |
| 16                  | 11.62   | 46.53   | 30.61   | 11  | 24.26             | 24.79   | 24.54   | 11  | 0.00               | 0.00    | 0.00  | 11  |
| 17                  | 10.68   | 44.19   | 29.39   | 11  | 24.29             | 24.79   | 24.55   | 11  | 0.00               | 0.00    | 0.00  | 11  |
| 18                  | 10.90   | 42.53   | 27.87   | 11  | 24.33             | 24.80   | 24.56   | 11  | 0.00               | 0.00    | 0.00  | 11  |
| 19                  | 8.81    | 40.58   | 26.53   | 11  | 24.34             | 24.80   | 24.57   | 11  | 0.00               | 0.00    | 0.00  | 11  |
| 20                  | 4.69    | 40.92   | 24.61   | 11  | 24.36             | 24.80   | 24.58   | 11  | 0.00               | 0.00    | 0.00  | 11  |
| 21                  | 5.60    | 40.09   | 23.63   | 11  | 24.36             | 24.80   | 24.58   | 11  | 0.00               | 0.00    | 0.00  | 11  |
| 22                  | 2.24    | 40.75   | 21.87   | 11  | 24.36             | 24.80   | 24.60   | 11  | 0.00               | 0.00    | 0.00  | 11  |
| 23                  | 6.33    | 42.15   | 21.38   | 11  | 24.36             | 24.80   | 24.60   | 11  | 0.00               | 0.00    | 0.00  | 11  |
| 24                  | 5.82    | 38.27   | 20.98   | 11  | 24.37             | 24.80   | 24.60   | 11  | 0.00               | 0.00    | 0.00  | 11  |
|                     | -2.18   | 49.85   | 23.53   | 249 | 24.26             | 24.85   | 24.58   | 249 | 0.00               | 0.00    | 0.00  | 249 |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: RMA(COMPOSITE)

Period: 1/21/91 thru 1/31/91

Month and year of record: JANUARY, 91

| SOLAR RADIATION (LY/YR) |         |         |         |     | RELATIVE HUMIDITY (%) |         |         |     | PEAK WIND SPEED (M/SEC) |         |         |     |
|-------------------------|---------|---------|---------|-----|-----------------------|---------|---------|-----|-------------------------|---------|---------|-----|
| HR                      | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM               | MAXIMUM | AVERAGE | OBS | MINIMUM                 | MAXIMUM | AVERAGE | OBS |
| 1                       | -0.01   | 0.00    | -0.00   | 7   | 21.09                 | 97.50   | 62.80   | 7   | 10.31                   | 30.19   | 18.27   | 7   |
| 2                       | -0.01   | 0.00    | -0.00   | 7   | 20.70                 | 97.70   | 59.35   | 7   | 5.39                    | 27.16   | 16.05   | 7   |
| 3                       | -0.01   | 0.00    | -0.00   | 7   | 19.60                 | 97.00   | 57.40   | 7   | 6.40                    | 17.41   | 11.44   | 7   |
| 4                       | -0.01   | 0.00    | -0.00   | 7   | 20.83                 | 97.00   | 56.58   | 7   | 9.89                    | 18.99   | 13.86   | 7   |
| 5                       | -0.01   | 0.00    | -0.00   | 7   | 21.55                 | 96.40   | 55.43   | 7   | 8.31                    | 24.01   | 15.42   | 7   |
| 6                       | -0.01   | 0.00    | -0.00   | 7   | 20.84                 | 96.10   | 57.08   | 7   | 7.55                    | 28.22   | 14.90   | 7   |
| 7                       | -0.01   | -0.00   | -0.00   | 7   | 19.76                 | 95.80   | 58.51   | 7   | 5.55                    | 22.44   | 13.39   | 7   |
| 8                       | 0.02    | 0.09    | 0.06    | 7   | 20.73                 | 95.90   | 58.01   | 7   | 4.07                    | 22.39   | 13.29   | 7   |
| 9                       | 0.25    | 0.38    | 0.32    | 7   | 20.20                 | 94.20   | 57.06   | 7   | 6.08                    | 19.81   | 13.25   | 7   |
| 10                      | 0.44    | 0.68    | 0.56    | 7   | 19.45                 | 91.10   | 53.72   | 7   | 6.78                    | 24.28   | 13.96   | 7   |
| 11                      | 0.44    | 0.93    | 0.75    | 7   | 20.10                 | 82.70   | 47.50   | 7   | 7.38                    | 30.25   | 13.94   | 7   |
| 12                      | 0.68    | 1.01    | 0.85    | 7   | 19.60                 | 75.40   | 44.56   | 7   | 7.82                    | 26.06   | 14.87   | 7   |
| 13                      | 0.36    | 0.94    | 0.81    | 8   | 18.76                 | 68.66   | 45.24   | 8   | 8.75                    | 32.26   | 16.09   | 8   |
| 14                      | 0.39    | 0.82    | 0.69    | 8   | 19.70                 | 64.01   | 43.08   | 8   | 7.56                    | 30.05   | 14.38   | 8   |
| 15                      | 0.33    | 0.63    | 0.54    | 8   | 19.36                 | 63.88   | 42.12   | 8   | 4.74                    | 25.14   | 11.40   | 8   |
| 16                      | 0.15    | 0.39    | 0.29    | 8   | 19.23                 | 64.12   | 43.86   | 8   | 4.64                    | 22.54   | 12.84   | 8   |
| 17                      | 0.05    | 0.15    | 0.10    | 8   | 19.45                 | 66.65   | 42.70   | 8   | 3.96                    | 24.46   | 13.80   | 8   |
| 18                      | -0.01   | 0.00    | -0.00   | 8   | 20.31                 | 73.60   | 46.40   | 8   | 3.23                    | 36.93   | 15.52   | 8   |
| 19                      | -0.01   | 0.00    | -0.01   | 8   | 21.28                 | 89.70   | 51.05   | 8   | 5.56                    | 31.23   | 16.35   | 8   |
| 20                      | -0.01   | 0.00    | -0.01   | 8   | 20.68                 | 95.90   | 53.14   | 8   | 5.72                    | 26.49   | 14.15   | 8   |
| 21                      | -0.01   | 0.00    | -0.00   | 8   | 20.85                 | 95.80   | 54.66   | 8   | 4.34                    | 33.49   | 16.24   | 8   |
| 22                      | -0.01   | 0.00    | -0.00   | 8   | 20.50                 | 94.30   | 57.78   | 8   | 4.23                    | 32.02   | 16.18   | 8   |
| 23                      | -0.01   | 0.00    | -0.00   | 8   | 19.65                 | 95.60   | 58.73   | 8   | 3.79                    | 38.11   | 19.89   | 8   |
| 24                      | -0.01   | 0.00    | -0.00   | 8   | 20.67                 | 97.40   | 60.63   | 8   | 6.20                    | 33.70   | 19.24   | 8   |
|                         | -0.01   | 1.01    | 0.21    | 180 | 18.76                 | 97.70   | 52.81   | 180 | 3.23                    | 38.11   | 14.95   | 180 |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: RMA(COMPOSITE)

Period: 1/21/91 thru 1/31/91

Month and year of record: JANUARY, 91

| TEMP DIFFERENCE (DEG F) |         |         |         |     | P-G STABILITY |         |         |     |
|-------------------------|---------|---------|---------|-----|---------------|---------|---------|-----|
| HR                      | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM       | MAXIMUM | AVERAGE | OBS |
| 1                       | -0.03   | 7.30    | 3.33    | 7   | 4.00          | 6.00    | 4.43    | 7   |
| 2                       | -0.04   | 7.50    | 3.05    | 7   | 4.00          | 6.00    | 4.71    | 7   |
| 3                       | -0.02   | 9.50    | 3.82    | 7   | 4.00          | 5.00    | 4.43    | 7   |
| 4                       | -0.01   | 9.31    | 4.77    | 7   | 4.00          | 6.00    | 4.43    | 7   |
| 5                       | -0.06   | 7.43    | 3.38    | 7   | 4.00          | 6.00    | 4.43    | 7   |
| 6                       | -0.06   | 5.89    | 2.67    | 7   | 4.00          | 6.00    | 4.29    | 7   |
| 7                       | 0.09    | 6.09    | 2.69    | 7   | 4.00          | 6.00    | 4.43    | 7   |
| 8                       | 0.50    | 9.54    | 3.51    | 7   | 4.00          | 6.00    | 4.43    | 7   |
| 9                       | 0.88    | 6.96    | 2.91    | 7   | 3.00          | 4.00    | 3.86    | 7   |
| 10                      | 0.55    | 3.50    | 1.70    | 7   | 2.00          | 4.00    | 3.00    | 7   |
| 11                      | 0.33    | 1.93    | 0.98    | 7   | 1.00          | 4.00    | 3.00    | 7   |
| 12                      | 0.07    | 1.43    | 0.75    | 7   | 1.00          | 4.00    | 2.57    | 7   |
| 13                      | 0.12    | 1.33    | 0.64    | 8   | 1.00          | 4.00    | 2.38    | 8   |
| 14                      | 0.01    | 3.04    | 0.89    | 8   | 1.00          | 4.00    | 2.38    | 8   |
| 15                      | -0.17   | 2.66    | 0.98    | 8   | 1.00          | 4.00    | 2.50    | 8   |
| 16                      | 0.11    | 5.64    | 1.71    | 8   | 1.00          | 4.00    | 2.38    | 8   |
| 17                      | 0.27    | 4.70    | 1.86    | 8   | 4.00          | 6.00    | 4.75    | 8   |
| 18                      | 0.06    | 6.90    | 3.02    | 8   | 4.00          | 6.00    | 4.50    | 8   |
| 19                      | -0.15   | 4.45    | 2.77    | 8   | 4.00          | 6.00    | 4.75    | 8   |
| 20                      | -0.16   | 6.93    | 2.86    | 8   | 4.00          | 6.00    | 5.00    | 8   |
| 21                      | -0.13   | 6.28    | 2.85    | 8   | 4.00          | 6.00    | 4.88    | 8   |
| 22                      | -0.14   | 4.24    | 2.15    | 8   | 4.00          | 6.00    | 5.00    | 8   |
| 23                      | -0.13   | 4.62    | 2.46    | 8   | 4.00          | 6.00    | 4.25    | 8   |
| 24                      | -0.07   | 6.85    | 3.06    | 8   | 4.00          | 6.00    | 4.50    | 8   |
|                         | -0.17   | 9.54    | 2.45    | 180 | 1.00          | 6.00    | 3.97    | 180 |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: RMA(COMPOSITE)

Period: 2/ 1/91 thru 2/28/91

Month and year of record: FEBRUARY, 91

| WIND SPEED (M/SEC) |         |         |         |     | WIND DIRECTION (DEG) |         |         |     | SIGMA THETA (DEG) |         |         |     |
|--------------------|---------|---------|---------|-----|----------------------|---------|---------|-----|-------------------|---------|---------|-----|
| HR                 | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM              | MAXIMUM | AVERAGE | OBS | MINIMUM           | MAXIMUM | AVERAGE | OBS |
| 1                  | 4.74    | 13.53   | 7.95    | 28  | 126.80               | 320.80  | 185.82  | 28  | 4.09              | 56.35   | 12.06   | 28  |
| 2                  | 3.12    | 14.21   | 7.89    | 28  | 146.80               | 344.70  | 191.94  | 28  | 3.11              | 51.53   | 11.47   | 28  |
| 3                  | 2.78    | 13.10   | 7.78    | 28  | 31.23                | 311.80  | 194.15  | 28  | 2.30              | 70.20   | 13.25   | 28  |
| 4                  | 2.68    | 12.62   | 7.64    | 28  | 136.60               | 359.50  | 196.41  | 28  | 2.68              | 53.65   | 13.11   | 28  |
| 5                  | 2.67    | 13.30   | 8.04    | 28  | 145.00               | 295.80  | 199.50  | 28  | 1.40              | 62.11   | 11.17   | 28  |
| 6                  | 5.35    | 13.39   | 8.05    | 28  | 75.00                | 278.40  | 202.08  | 28  | 2.70              | 45.37   | 11.12   | 28  |
| 7                  | 3.76    | 16.08   | 8.43    | 28  | 52.96                | 311.50  | 197.59  | 28  | 2.60              | 27.79   | 10.44   | 28  |
| 8                  | 4.40    | 12.53   | 7.75    | 28  | 58.94                | 344.00  | 203.30  | 28  | 1.95              | 24.51   | 10.17   | 28  |
| 9                  | 2.95    | 12.40   | 7.92    | 28  | 115.60               | 350.30  | 210.76  | 28  | 3.69              | 56.48   | 13.26   | 28  |
| 10                 | 1.75    | 13.66   | 7.89    | 28  | 5.64                 | 353.30  | 218.63  | 28  | 4.49              | 49.82   | 16.30   | 28  |
| 11                 | 3.22    | 19.23   | 8.02    | 28  | 0.70                 | 359.00  | 238.97  | 28  | 3.26              | 57.83   | 21.86   | 28  |
| 12                 | 2.28    | 22.64   | 7.99    | 28  | 4.14                 | 355.20  | 356.83  | 28  | 2.57              | 64.36   | 23.34   | 28  |
| 13                 | 2.91    | 24.13   | 7.94    | 28  | 3.08                 | 359.10  | 33.28   | 28  | 4.53              | 52.06   | 25.69   | 28  |
| 14                 | 1.99    | 25.87   | 8.32    | 28  | 1.89                 | 359.60  | 41.24   | 28  | 6.25              | 61.42   | 27.39   | 28  |
| 15                 | 2.59    | 25.81   | 9.25    | 28  | 4.48                 | 336.80  | 27.11   | 28  | 6.59              | 65.11   | 22.14   | 28  |
| 16                 | 3.75    | 22.85   | 9.40    | 28  | 6.07                 | 358.80  | 45.47   | 28  | 6.34              | 41.44   | 17.14   | 28  |
| 17                 | 2.31    | 21.82   | 8.22    | 28  | 3.35                 | 351.30  | 47.98   | 28  | 3.09              | 33.22   | 14.06   | 28  |
| 18                 | 0.91    | 17.09   | 7.68    | 28  | 3.00                 | 339.60  | 37.78   | 28  | 3.60              | 56.58   | 13.82   | 28  |
| 19                 | 1.04    | 17.61   | 7.34    | 28  | 0.62                 | 357.40  | 62.48   | 28  | 4.16              | 58.87   | 18.18   | 28  |
| 20                 | 2.13    | 18.94   | 7.00    | 28  | 6.39                 | 326.40  | 178.56  | 28  | 4.77              | 50.65   | 21.48   | 28  |
| 21                 | 2.18    | 10.87   | 6.63    | 28  | 36.33                | 351.90  | 173.01  | 28  | 3.23              | 55.21   | 19.26   | 28  |
| 22                 | 2.51    | 12.17   | 7.24    | 28  | 39.32                | 286.20  | 180.76  | 28  | 2.42              | 54.22   | 16.31   | 28  |
| 23                 | 2.74    | 20.70   | 7.95    | 28  | 53.53                | 344.40  | 186.98  | 28  | 3.11              | 45.16   | 11.51   | 28  |
| 24                 | 5.43    | 20.37   | 8.08    | 28  | 105.30               | 342.80  | 184.97  | 28  | 2.94              | 39.10   | 12.56   | 28  |
|                    | 0.91    | 25.87   | 7.93    | 672 | 0.62                 | 359.60  | 191.03  | 672 | 1.40              | 70.20   | 16.13   | 672 |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: RMA(COMPOSITE)

Period: 2/ 1/91 thru 2/28/91

Month and year of record: FEBRUARY, 91

| TEMPERATURE (DEG F) |         |         |         |     | PRESSURE (IN. HG) |         |         |     | PRECIPITATION (IN) |         |       |     |
|---------------------|---------|---------|---------|-----|-------------------|---------|---------|-----|--------------------|---------|-------|-----|
| HR                  | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM           | MAXIMUM | AVERAGE | OBS | MINIMUM            | MAXIMUM | TOTAL | OBS |
| 1                   | 22.31   | 44.66   | 34.97   | 28  | 24.34             | 25.04   | 24.72   | 27  | 0.00               | 0.00    | 0.00  | 28  |
| 2                   | 19.28   | 42.71   | 33.84   | 28  | 24.32             | 25.04   | 24.71   | 27  | 0.00               | 0.00    | 0.00  | 28  |
| 3                   | 16.76   | 44.79   | 33.31   | 28  | 24.32             | 25.03   | 24.70   | 27  | 0.00               | 0.00    | 0.00  | 28  |
| 4                   | 15.32   | 45.79   | 32.94   | 28  | 24.31             | 25.01   | 24.70   | 27  | 0.00               | 0.00    | 0.00  | 28  |
| 5                   | 14.74   | 45.53   | 32.67   | 28  | 24.29             | 25.00   | 24.70   | 27  | 0.00               | 0.00    | 0.00  | 28  |
| 6                   | 16.25   | 45.07   | 32.27   | 28  | 24.28             | 25.01   | 24.70   | 27  | 0.00               | 0.00    | 0.00  | 28  |
| 7                   | 19.11   | 45.76   | 31.91   | 28  | 24.27             | 25.00   | 24.71   | 26  | 0.00               | 0.00    | 0.00  | 28  |
| 8                   | 22.30   | 46.36   | 32.68   | 28  | 24.24             | 25.00   | 24.71   | 27  | 0.00               | 0.00    | 0.00  | 28  |
| 9                   | 23.64   | 49.79   | 35.81   | 28  | 24.25             | 25.00   | 24.71   | 28  | 0.00               | 0.00    | 0.00  | 28  |
| 10                  | 24.87   | 52.32   | 40.14   | 28  | 24.25             | 25.02   | 24.71   | 28  | 0.00               | 0.00    | 0.00  | 28  |
| 11                  | 27.34   | 55.13   | 43.72   | 28  | 24.24             | 25.05   | 24.71   | 28  | 0.00               | 0.00    | 0.00  | 28  |
| 12                  | 27.32   | 56.83   | 46.09   | 28  | 24.22             | 25.05   | 24.70   | 28  | 0.00               | 0.00    | 0.00  | 28  |
| 13                  | 26.79   | 57.75   | 48.36   | 28  | 24.18             | 25.04   | 24.68   | 28  | 0.00               | 0.00    | 0.00  | 28  |
| 14                  | 25.70   | 58.42   | 49.44   | 28  | 24.15             | 25.01   | 24.66   | 28  | 0.00               | 0.00    | 0.00  | 28  |
| 15                  | 25.05   | 60.43   | 49.78   | 28  | 24.14             | 25.01   | 24.65   | 28  | 0.00               | 0.00    | 0.00  | 28  |
| 16                  | 25.64   | 62.48   | 49.39   | 28  | 24.13             | 25.01   | 24.65   | 28  | 0.00               | 0.00    | 0.00  | 28  |
| 17                  | 25.97   | 62.50   | 48.07   | 28  | 24.11             | 25.01   | 24.65   | 28  | 0.00               | 0.00    | 0.00  | 28  |
| 18                  | 25.57   | 56.42   | 45.57   | 28  | 24.11             | 25.02   | 24.66   | 28  | 0.00               | 0.00    | 0.00  | 28  |
| 19                  | 24.70   | 51.44   | 43.12   | 28  | 24.11             | 25.03   | 24.67   | 28  | 0.00               | 0.00    | 0.00  | 28  |
| 20                  | 24.42   | 50.83   | 41.44   | 28  | 24.10             | 25.03   | 24.68   | 28  | 0.00               | 0.00    | 0.00  | 28  |
| 21                  | 24.03   | 48.95   | 39.68   | 28  | 24.08             | 25.03   | 24.68   | 28  | 0.00               | 0.00    | 0.00  | 28  |
| 22                  | 23.80   | 48.54   | 38.16   | 28  | 24.07             | 25.03   | 24.69   | 28  | 0.00               | 0.00    | 0.00  | 28  |
| 23                  | 23.87   | 48.36   | 36.57   | 28  | 24.06             | 25.03   | 24.69   | 28  | 0.00               | 0.00    | 0.00  | 28  |
| 24                  | 23.79   | 46.80   | 35.35   | 28  | 24.06             | 25.04   | 24.69   | 27  | 0.00               | 0.00    | 0.00  | 28  |
| 14.74               | 62.50   | 39.80   | 672     |     | 24.06             | 25.05   | 24.69   | 662 | 0.00               | 0.00    | 0.00  | 672 |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: RMA(COMPOSITE)

Period: 2/ 1/91 thru 2/28/91

Month and year of record: FEBRUARY, 91

| SOLAR RADIATION (LY/YR) |         |         |         |     | RELATIVE HUMIDITY (%) |         |         |     | PEAK WIND SPEED (M/SEC) |         |         |     |
|-------------------------|---------|---------|---------|-----|-----------------------|---------|---------|-----|-------------------------|---------|---------|-----|
| HR                      | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM               | MAXIMUM | AVERAGE | OBS | MINIMUM                 | MAXIMUM | AVERAGE | OBS |
| 1                       | -0.01   | -0.00   | -0.01   | 28  | 19.68                 | 87.80   | 51.29   | 28  | 5.66                    | 22.48   | 12.43   | 28  |
| 2                       | -0.01   | -0.00   | -0.01   | 28  | 20.52                 | 90.30   | 52.19   | 28  | 4.34                    | 21.09   | 12.41   | 28  |
| 3                       | -0.01   | -0.00   | -0.01   | 28  | 20.54                 | 93.10   | 53.45   | 28  | 4.86                    | 20.09   | 11.77   | 28  |
| 4                       | -0.01   | -0.00   | -0.01   | 28  | 21.39                 | 93.80   | 53.68   | 28  | 6.00                    | 21.99   | 11.75   | 28  |
| 5                       | -0.01   | -0.00   | -0.01   | 28  | 21.22                 | 94.40   | 53.42   | 28  | 6.50                    | 21.71   | 11.85   | 28  |
| 6                       | -0.01   | -0.00   | -0.01   | 28  | 21.17                 | 93.90   | 53.33   | 28  | 7.79                    | 19.19   | 12.30   | 28  |
| 7                       | -0.01   | 0.01    | -0.00   | 28  | 22.27                 | 93.90   | 53.97   | 28  | 7.59                    | 26.27   | 12.76   | 28  |
| 8                       | 0.01    | 0.31    | 0.10    | 28  | 21.98                 | 93.60   | 55.17   | 28  | 7.23                    | 18.08   | 11.69   | 28  |
| 9                       | 0.08    | 0.59    | 0.32    | 28  | 20.68                 | 88.70   | 51.87   | 28  | 6.09                    | 19.25   | 11.54   | 28  |
| 10                      | 0.14    | 0.77    | 0.53    | 28  | 18.89                 | 80.50   | 44.30   | 28  | 5.67                    | 22.46   | 12.74   | 28  |
| 11                      | 0.23    | 0.97    | 0.68    | 28  | 17.62                 | 74.90   | 37.61   | 28  | 6.73                    | 35.28   | 13.09   | 28  |
| 12                      | 0.26    | 1.11    | 0.77    | 28  | 16.67                 | 86.10   | 34.03   | 27  | 4.59                    | 31.01   | 13.28   | 27  |
| 13                      | 0.31    | 1.16    | 0.79    | 28  | 16.05                 | 92.20   | 31.02   | 28  | 5.84                    | 30.96   | 14.19   | 28  |
| 14                      | 0.32    | 1.04    | 0.75    | 28  | 15.86                 | 96.30   | 29.73   | 28  | 4.73                    | 37.85   | 15.55   | 28  |
| 15                      | 0.20    | 0.89    | 0.58    | 28  | 15.73                 | 96.20   | 29.16   | 28  | 7.96                    | 37.08   | 15.78   | 28  |
| 16                      | 0.12    | 0.66    | 0.40    | 28  | 14.98                 | 90.80   | 29.53   | 28  | 6.67                    | 29.85   | 15.16   | 28  |
| 17                      | 0.04    | 0.26    | 0.15    | 28  | 14.81                 | 77.50   | 31.12   | 28  | 3.56                    | 36.09   | 13.51   | 28  |
| 18                      | -0.01   | 0.04    | 0.01    | 28  | 16.47                 | 75.30   | 34.23   | 28  | 1.49                    | 29.05   | 11.52   | 28  |
| 19                      | -0.01   | -0.00   | -0.01   | 28  | 17.20                 | 79.50   | 37.61   | 28  | 3.26                    | 26.75   | 11.87   | 28  |
| 20                      | -0.01   | -0.00   | -0.01   | 28  | 17.55                 | 82.70   | 40.33   | 28  | 3.94                    | 24.42   | 11.29   | 28  |
| 21                      | -0.01   | -0.00   | -0.01   | 28  | 18.00                 | 89.70   | 43.55   | 28  | 4.37                    | 24.21   | 11.87   | 28  |
| 22                      | -0.01   | -0.00   | -0.01   | 28  | 18.14                 | 89.20   | 47.13   | 28  | 5.64                    | 29.82   | 12.22   | 28  |
| 23                      | -0.01   | -0.00   | -0.01   | 28  | 18.72                 | 89.90   | 49.95   | 28  | 6.22                    | 33.68   | 12.76   | 28  |
| 24                      | -0.01   | -0.00   | -0.01   | 28  | 19.86                 | 90.40   | 51.71   | 28  | 8.83                    | 33.14   | 13.01   | 28  |
|                         | -0.01   | 1.16    | 0.21    | 672 | 14.81                 | 96.30   | 43.72   | 671 | 1.49                    | 37.85   | 12.76   | 671 |



WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: RMA(COMPOSITE)

Period: 2/ 1/91 thru 2/28/91

Month and year of record: FEBRUARY, 91

| TEMP DIFFERENCE (DEG F) |         |         |         |     | P-G STABILITY |         |         |     |
|-------------------------|---------|---------|---------|-----|---------------|---------|---------|-----|
| HR                      | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM       | MAXIMUM | AVERAGE | OBS |
| 1                       | 0.56    | 7.94    | 3.43    | 28  | 4.00          | 6.00    | 4.43    | 28  |
| 2                       | 1.40    | 6.36    | 3.34    | 28  | 4.00          | 6.00    | 4.46    | 28  |
| 3                       | 0.94    | 12.03   | 3.60    | 28  | 4.00          | 6.00    | 4.57    | 28  |
| 4                       | 1.31    | 6.30    | 3.63    | 28  | 4.00          | 6.00    | 4.79    | 28  |
| 5                       | 1.41    | 10.60   | 3.92    | 28  | 4.00          | 6.00    | 4.54    | 28  |
| 6                       | 0.90    | 9.90    | 3.64    | 28  | 4.00          | 6.00    | 4.64    | 28  |
| 7                       | 0.44    | 7.90    | 3.29    | 28  | 4.00          | 6.00    | 4.46    | 28  |
| 8                       | -0.08   | 4.32    | 1.96    | 28  | 4.00          | 6.00    | 4.54    | 28  |
| 9                       | -0.42   | 3.12    | 0.27    | 28  | 1.00          | 4.00    | 3.29    | 28  |
| 10                      | -0.78   | 1.51    | -0.29   | 28  | 1.00          | 4.00    | 2.96    | 28  |
| 11                      | -1.09   | 0.70    | -0.51   | 28  | 1.00          | 4.00    | 2.50    | 28  |
| 12                      | -1.43   | 0.90    | -0.60   | 27  | 1.00          | 4.00    | 2.14    | 28  |
| 13                      | -1.63   | 1.29    | -0.63   | 28  | 1.00          | 4.00    | 1.93    | 28  |
| 14                      | -1.37   | 1.28    | -0.61   | 28  | 1.00          | 4.00    | 2.00    | 28  |
| 15                      | -1.36   | 2.10    | -0.47   | 28  | 1.00          | 4.00    | 2.57    | 28  |
| 16                      | -1.23   | 1.82    | -0.24   | 28  | 1.00          | 4.00    | 2.79    | 28  |
| 17                      | -0.37   | 2.35    | 0.42    | 28  | 1.00          | 6.00    | 4.00    | 28  |
| 18                      | -0.01   | 4.71    | 1.99    | 28  | 4.00          | 6.00    | 4.82    | 28  |
| 19                      | 0.13    | 11.21   | 3.49    | 28  | 4.00          | 6.00    | 4.75    | 28  |
| 20                      | 0.19    | 8.37    | 3.38    | 28  | 4.00          | 6.00    | 5.00    | 28  |
| 21                      | 0.33    | 10.40   | 3.96    | 28  | 4.00          | 6.00    | 4.86    | 28  |
| 22                      | 0.31    | 7.63    | 4.07    | 28  | 4.00          | 6.00    | 4.71    | 28  |
| 23                      | 1.01    | 6.84    | 3.18    | 28  | 4.00          | 6.00    | 4.61    | 28  |
| 24                      | 0.16    | 9.42    | 3.24    | 28  | 4.00          | 6.00    | 4.57    | 28  |
|                         | -1.63   | 12.03   | 1.98    | 671 | 1.00          | 6.00    | 3.91    | 672 |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: RMA(COMPOSITE)

Period: 3/ 1/91 thru 3/31/91

Month and year of record: MARCH, 91

| WIND SPEED (M/SEC) |         |         |         |     | WIND DIRECTION (DEG) |         |         |     | SIGMA THETA (DEG) |         |         |     |
|--------------------|---------|---------|---------|-----|----------------------|---------|---------|-----|-------------------|---------|---------|-----|
| HR                 | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM              | MAXIMUM | AVERAGE | OBS | MINIMUM           | MAXIMUM | AVERAGE | OBS |
| 1                  | 2.43    | 26.07   | 10.10   | 31  | 11.57                | 348.20  | 224.81  | 31  | 2.15              | 55.90   | 14.37   | 31  |
| 2                  | 3.77    | 28.04   | 10.22   | 31  | 9.93                 | 358.90  | 216.96  | 31  | 3.44              | 49.96   | 16.44   | 31  |
| 3                  | 3.08    | 25.66   | 10.51   | 31  | 7.13                 | 354.70  | 227.30  | 31  | 3.14              | 46.77   | 11.60   | 31  |
| 4                  | 2.09    | 26.55   | 10.57   | 31  | 28.50                | 354.80  | 238.84  | 31  | 1.99              | 21.94   | 11.41   | 31  |
| 5                  | 2.85    | 23.05   | 10.32   | 31  | 0.19                 | 356.40  | 249.36  | 31  | 1.90              | 36.54   | 12.84   | 31  |
| 6                  | 2.14    | 23.30   | 9.07    | 31  | 10.18                | 352.50  | 242.28  | 31  | 2.10              | 55.68   | 16.81   | 31  |
| 7                  | 2.51    | 20.39   | 8.34    | 31  | 10.07                | 318.30  | 212.55  | 31  | 2.32              | 38.48   | 15.42   | 31  |
| 8                  | 1.73    | 22.04   | 8.48    | 31  | 4.78                 | 327.00  | 209.90  | 31  | 3.21              | 50.50   | 15.93   | 31  |
| 9                  | 2.19    | 24.06   | 9.02    | 31  | 58.97                | 351.20  | 228.14  | 31  | 6.08              | 65.91   | 20.41   | 31  |
| 10                 | 2.67    | 26.11   | 9.00    | 31  | 4.88                 | 355.70  | 203.80  | 31  | 6.80              | 48.90   | 22.60   | 31  |
| 11                 | 2.08    | 25.65   | 9.93    | 31  | 7.79                 | 353.30  | 259.06  | 31  | 9.05              | 70.40   | 30.90   | 31  |
| 12                 | 3.38    | 24.49   | 11.32   | 31  | 1.42                 | 353.10  | 257.97  | 31  | 8.26              | 63.58   | 27.98   | 31  |
| 13                 | 3.21    | 29.87   | 11.78   | 31  | 10.07                | 359.50  | 308.63  | 31  | 6.80              | 67.49   | 28.61   | 31  |
| 14                 | 4.45    | 32.97   | 13.21   | 31  | 2.45                 | 339.50  | 270.41  | 31  | 6.50              | 66.88   | 24.88   | 31  |
| 15                 | 2.95    | 34.18   | 13.58   | 31  | 0.42                 | 350.90  | 348.35  | 31  | 5.89              | 53.14   | 22.68   | 31  |
| 16                 | 5.14    | 35.77   | 13.69   | 31  | 8.21                 | 357.60  | 2.29    | 31  | 5.62              | 52.12   | 19.48   | 31  |
| 17                 | 3.29    | 30.66   | 14.32   | 31  | 5.46                 | 347.20  | 15.24   | 31  | 4.46              | 64.06   | 19.87   | 31  |
| 18                 | 2.92    | 29.34   | 13.75   | 31  | 4.32                 | 322.00  | 54.77   | 31  | 4.27              | 56.78   | 16.42   | 31  |
| 19                 | 3.84    | 29.92   | 12.97   | 31  | 11.04                | 346.90  | 112.51  | 31  | 3.65              | 67.71   | 14.38   | 31  |
| 20                 | 4.48    | 28.65   | 11.72   | 31  | 2.64                 | 310.40  | 155.13  | 31  | 3.17              | 64.69   | 15.49   | 31  |
| 21                 | 2.76    | 21.89   | 10.70   | 31  | 1.64                 | 358.10  | 197.08  | 31  | 2.42              | 52.87   | 16.42   | 31  |
| 22                 | 2.40    | 16.50   | 9.11    | 31  | 13.02                | 349.90  | 196.25  | 31  | 2.54              | 66.35   | 19.13   | 31  |
| 23                 | 3.71    | 24.97   | 9.23    | 31  | 0.18                 | 349.20  | 211.66  | 31  | 3.41              | 75.60   | 15.26   | 31  |
| 24                 | 3.45    | 22.61   | 10.07   | 31  | 13.49                | 330.70  | 216.14  | 31  | 2.66              | 68.97   | 15.82   | 31  |
| 1.73               | 35.77   | 10.87   | 744     |     | 0.18                 | 359.50  | 228.78  | 744 | 1.90              | 75.60   | 18.55   | 744 |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: RMA(COMPOSITE)

Period: 3/ 1/91 thru 3/31/91

Month and year of record: MARCH, 91

| TEMPERATURE (DEG F) |         |         |         |     | PRESSURE (IN. HG) |         |         |     | PRECIPITATION (IN) |         |       |     |
|---------------------|---------|---------|---------|-----|-------------------|---------|---------|-----|--------------------|---------|-------|-----|
| HR                  | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM           | MAXIMUM | AVERAGE | OBS | MINIMUM            | MAXIMUM | TOTAL | OBS |
| 1                   | 22.68   | 55.95   | 37.27   | 31  | 24.06             | 24.84   | 24.46   | 31  | 0.00               | 0.00    | 0.00  | 31  |
| 2                   | 21.62   | 55.25   | 36.95   | 31  | 24.05             | 24.84   | 24.46   | 31  | 0.00               | 0.00    | 0.00  | 31  |
| 3                   | 21.25   | 54.06   | 36.31   | 31  | 24.05             | 24.84   | 24.46   | 31  | 0.00               | 0.00    | 0.00  | 31  |
| 4                   | 21.32   | 53.06   | 36.05   | 31  | 24.05             | 24.84   | 24.46   | 31  | 0.00               | 0.00    | 0.00  | 31  |
| 5                   | 21.24   | 52.36   | 35.63   | 31  | 24.05             | 24.84   | 24.46   | 31  | 0.00               | 0.00    | 0.00  | 31  |
| 6                   | 20.65   | 52.45   | 34.82   | 31  | 24.06             | 24.84   | 24.47   | 31  | 0.00               | 0.00    | 0.00  | 31  |
| 7                   | 19.72   | 52.99   | 34.75   | 31  | 24.07             | 24.84   | 24.47   | 30  | 0.00               | 0.00    | 0.00  | 31  |
| 8                   | 19.38   | 53.26   | 36.80   | 31  | 24.08             | 24.84   | 24.47   | 30  | 0.00               | 0.00    | 0.00  | 31  |
| 9                   | 20.70   | 55.60   | 40.61   | 31  | 24.10             | 24.85   | 24.48   | 31  | 0.00               | 0.00    | 0.00  | 31  |
| 10                  | 24.59   | 57.78   | 43.55   | 31  | 24.17             | 24.84   | 24.49   | 30  | 0.00               | 0.06    | 0.06  | 31  |
| 11                  | 29.56   | 60.79   | 46.54   | 31  | 24.10             | 24.83   | 24.47   | 31  | 0.00               | 0.00    | 0.00  | 31  |
| 12                  | 31.95   | 64.24   | 48.66   | 31  | 24.10             | 24.82   | 24.46   | 31  | 0.00               | 0.00    | 0.00  | 31  |
| 13                  | 33.13   | 66.18   | 50.04   | 31  | 24.08             | 24.80   | 24.44   | 31  | 0.00               | 0.00    | 0.00  | 31  |
| 14                  | 32.11   | 66.77   | 50.82   | 31  | 24.07             | 24.79   | 24.43   | 30  | 0.00               | 0.00    | 0.00  | 31  |
| 15                  | 34.00   | 67.92   | 51.30   | 31  | 24.07             | 24.77   | 24.41   | 31  | 0.00               | 0.03    | 0.03  | 31  |
| 16                  | 34.31   | 67.54   | 51.04   | 31  | 24.08             | 24.75   | 24.41   | 31  | 0.00               | 0.00    | 0.00  | 31  |
| 17                  | 35.13   | 65.57   | 50.33   | 31  | 24.09             | 24.74   | 24.42   | 31  | 0.00               | 0.00    | 0.00  | 31  |
| 18                  | 32.29   | 63.75   | 48.18   | 31  | 24.09             | 24.74   | 24.43   | 31  | 0.00               | 0.00    | 0.00  | 31  |
| 19                  | 30.51   | 60.97   | 44.61   | 31  | 24.10             | 24.76   | 24.44   | 31  | 0.00               | 0.00    | 0.00  | 31  |
| 20                  | 29.57   | 58.84   | 42.12   | 31  | 24.10             | 24.78   | 24.46   | 31  | 0.00               | 0.00    | 0.00  | 31  |
| 21                  | 27.38   | 59.25   | 40.64   | 31  | 24.09             | 24.80   | 24.47   | 31  | 0.00               | 0.00    | 0.00  | 31  |
| 22                  | 25.96   | 57.47   | 39.96   | 31  | 24.08             | 24.82   | 24.48   | 31  | 0.00               | 0.05    | 0.05  | 31  |
| 23                  | 24.73   | 57.00   | 39.19   | 31  | 24.08             | 24.83   | 24.48   | 31  | 0.00               | 0.06    | 0.06  | 31  |
| 24                  | 23.63   | 56.64   | 38.22   | 31  | 24.09             | 24.83   | 24.48   | 31  | 0.00               | 0.03    | 0.03  | 31  |
| 19.38               | 67.92   | 42.27   | 744     |     | 24.05             | 24.85   | 24.46   | 740 | 0.00               | 0.06    | 0.23  | 744 |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: RMA(COMPOSITE)

Period: 3/ 1/91 thru 3/31/91

Month and year of record: MARCH, 91

| SOLAR RADIATION (LY/YR) |         |         |         |     | RELATIVE HUMIDITY (%) |         |         |     | PEAK WIND SPEED (M/SEC) |         |         |     |
|-------------------------|---------|---------|---------|-----|-----------------------|---------|---------|-----|-------------------------|---------|---------|-----|
| HR                      | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM               | MAXIMUM | AVERAGE | OBS | MINIMUM                 | MAXIMUM | AVERAGE | OBS |
| 1                       | -0.01   | 0.00    | -0.01   | 31  | 17.71                 | 101.80  | 51.69   | 31  | 4.84                    | 34.81   | 15.63   | 31  |
| 2                       | -0.01   | 0.00    | -0.01   | 31  | 18.15                 | 101.90  | 51.84   | 31  | 6.10                    | 37.15   | 15.84   | 31  |
| 3                       | -0.01   | 0.00    | -0.01   | 31  | 18.27                 | 101.90  | 52.29   | 31  | 5.95                    | 39.28   | 17.48   | 31  |
| 4                       | -0.01   | 0.00    | -0.01   | 31  | 18.22                 | 101.00  | 53.14   | 31  | 3.19                    | 37.79   | 16.18   | 31  |
| 5                       | -0.01   | 0.00    | -0.01   | 31  | 18.37                 | 101.00  | 53.77   | 31  | 5.12                    | 45.55   | 15.90   | 31  |
| 6                       | -0.01   | 0.00    | -0.00   | 31  | 18.76                 | 101.60  | 54.65   | 31  | 5.19                    | 34.15   | 13.79   | 31  |
| 7                       | 0.00    | 0.20    | 0.05    | 31  | 18.78                 | 101.40  | 55.45   | 31  | 4.37                    | 31.16   | 13.61   | 31  |
| 8                       | 0.07    | 0.52    | 0.26    | 31  | 18.90                 | 99.30   | 53.30   | 31  | 3.83                    | 34.25   | 14.27   | 30  |
| 9                       | 0.09    | 0.85    | 0.51    | 31  | 17.55                 | 98.00   | 46.68   | 31  | 5.80                    | 33.31   | 14.91   | 30  |
| 10                      | 0.10    | 1.07    | 0.75    | 31  | 16.27                 | 96.60   | 41.96   | 31  | 6.30                    | 37.44   | 16.19   | 30  |
| 11                      | 0.27    | 1.26    | 0.99    | 31  | 15.49                 | 92.80   | 35.86   | 31  | 6.52                    | 34.14   | 18.92   | 30  |
| 12                      | 0.23    | 1.38    | 1.09    | 31  | 14.63                 | 89.60   | 30.61   | 31  | 10.15                   | 36.57   | 21.64   | 30  |
| 13                      | 0.25    | 1.37    | 1.04    | 31  | 14.25                 | 96.80   | 29.06   | 31  | 10.09                   | 40.10   | 22.82   | 31  |
| 14                      | 0.10    | 1.26    | 0.98    | 31  | 14.00                 | 100.60  | 28.16   | 31  | 8.57                    | 43.71   | 24.01   | 31  |
| 15                      | 0.04    | 1.13    | 0.79    | 31  | 13.81                 | 98.60   | 27.29   | 31  | 9.35                    | 45.03   | 23.61   | 31  |
| 16                      | 0.12    | 0.77    | 0.53    | 31  | 13.80                 | 98.80   | 26.65   | 31  | 11.55                   | 44.40   | 22.58   | 31  |
| 17                      | 0.04    | 0.48    | 0.29    | 31  | 14.18                 | 93.70   | 26.38   | 31  | 7.53                    | 40.57   | 22.57   | 31  |
| 18                      | 0.01    | 0.16    | 0.08    | 31  | 14.53                 | 95.20   | 28.47   | 31  | 5.99                    | 42.84   | 23.10   | 31  |
| 19                      | -0.01   | 0.00    | -0.01   | 31  | 15.40                 | 96.60   | 33.07   | 31  | 6.92                    | 44.77   | 20.01   | 31  |
| 20                      | -0.01   | 0.00    | -0.01   | 31  | 15.89                 | 98.60   | 38.76   | 31  | 5.55                    | 43.97   | 17.42   | 31  |
| 21                      | -0.01   | 0.00    | -0.01   | 31  | 16.29                 | 99.50   | 42.43   | 31  | 4.86                    | 35.85   | 16.91   | 31  |
| 22                      | -0.01   | 0.00    | -0.01   | 31  | 16.75                 | 100.30  | 44.84   | 31  | 3.87                    | 25.94   | 14.45   | 31  |
| 23                      | -0.01   | 0.00    | -0.01   | 31  | 16.58                 | 101.60  | 45.95   | 31  | 6.37                    | 31.79   | 14.15   | 31  |
| 24                      | -0.01   | 0.00    | -0.01   | 31  | 17.26                 | 101.70  | 47.82   | 31  | 5.30                    | 42.26   | 15.66   | 31  |
|                         | -0.01   | 1.38    | 0.30    | 744 | 13.80                 | 101.90  | 41.67   | 744 | 3.19                    | 45.55   | 17.99   | 739 |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: RMA(COMPOSITE)

Period: 3/ 1/91 thru 3/31/91

Month and year of record: MARCH, 91

| TEMP DIFFERENCE (DEG F) |         |         |         |     | P-G STABILITY |         |         |     |
|-------------------------|---------|---------|---------|-----|---------------|---------|---------|-----|
| HR                      | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM       | MAXIMUM | AVERAGE | OBS |
| 1                       | -0.28   | 6.53    | 2.44    | 31  | 4.00          | 6.00    | 4.58    | 31  |
| 2                       | -0.25   | 6.86    | 2.33    | 31  | 4.00          | 6.00    | 4.61    | 31  |
| 3                       | -0.26   | 4.55    | 2.02    | 31  | 4.00          | 6.00    | 4.42    | 31  |
| 4                       | -0.21   | 6.78    | 2.03    | 31  | 4.00          | 6.00    | 4.32    | 31  |
| 5                       | -0.15   | 5.56    | 1.86    | 31  | 4.00          | 6.00    | 4.39    | 31  |
| 6                       | -0.16   | 6.28    | 2.29    | 31  | 4.00          | 6.00    | 4.65    | 31  |
| 7                       | -0.21   | 7.14    | 2.10    | 31  | 4.00          | 6.00    | 4.68    | 31  |
| 8                       | -0.37   | 2.98    | 0.28    | 31  | 1.00          | 6.00    | 3.29    | 31  |
| 9                       | -1.02   | 0.08    | -0.44   | 31  | 1.00          | 4.00    | 2.81    | 31  |
| 10                      | -1.40   | -0.05   | -0.69   | 31  | 1.00          | 4.00    | 2.19    | 31  |
| 11                      | -1.68   | -0.42   | -0.97   | 31  | 1.00          | 4.00    | 2.00    | 31  |
| 12                      | -1.89   | -0.32   | -1.13   | 31  | 1.00          | 4.00    | 2.39    | 31  |
| 13                      | -1.93   | -0.41   | -1.16   | 31  | 1.00          | 4.00    | 2.19    | 31  |
| 14                      | -1.80   | -0.23   | -1.13   | 31  | 1.00          | 4.00    | 2.58    | 31  |
| 15                      | -1.77   | 0.13    | -1.00   | 31  | 1.00          | 4.00    | 2.68    | 31  |
| 16                      | -1.22   | -0.17   | -0.73   | 31  | 1.00          | 4.00    | 2.87    | 31  |
| 17                      | -0.67   | 0.31    | -0.32   | 31  | 1.00          | 4.00    | 3.03    | 31  |
| 18                      | 0.02    | 1.67    | 0.32    | 31  | 4.00          | 6.00    | 4.23    | 31  |
| 19                      | -0.17   | 3.67    | 1.41    | 31  | 4.00          | 6.00    | 4.35    | 31  |
| 20                      | -0.06   | 5.71    | 1.89    | 31  | 4.00          | 6.00    | 4.32    | 31  |
| 21                      | -0.06   | 6.51    | 2.11    | 31  | 4.00          | 6.00    | 4.39    | 31  |
| 22                      | -0.15   | 6.40    | 2.22    | 31  | 4.00          | 6.00    | 4.48    | 31  |
| 23                      | -0.23   | 7.63    | 2.68    | 31  | 4.00          | 6.00    | 4.55    | 31  |
| 24                      | -0.25   | 10.59   | 2.67    | 31  | 4.00          | 6.00    | 4.39    | 31  |
|                         | -1.93   | 10.59   | 0.88    | 744 | 1.00          | 6.00    | 3.68    | 744 |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: RMA(COMPOSITE)

Period: 4/ 1/91 thru 4/30/91

Month and year of record: APRIL, 91

| WIND SPEED (M/SEC) |         |         |         |     | WIND DIRECTION (DEG) |         |         |     | SIGMA THETA (DEG) |         |         |     |
|--------------------|---------|---------|---------|-----|----------------------|---------|---------|-----|-------------------|---------|---------|-----|
| HR                 | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM              | MAXIMUM | AVERAGE | OBS | MINIMUM           | MAXIMUM | AVERAGE | OBS |
| 1                  | 2.76    | 18.61   | 8.39    | 30  | 17.55                | 357.80  | 203.85  | 30  | 1.92              | 61.23   | 16.08   | 30  |
| 2                  | 1.92    | 18.82   | 8.15    | 30  | 30.38                | 353.80  | 241.76  | 30  | 1.93              | 60.13   | 16.95   | 30  |
| 3                  | 3.42    | 15.91   | 7.65    | 30  | 15.30                | 346.20  | 230.15  | 30  | 2.19              | 40.41   | 14.52   | 30  |
| 4                  | 2.11    | 18.41   | 7.40    | 30  | 1.94                 | 351.70  | 240.68  | 30  | 3.17              | 50.07   | 18.79   | 30  |
| 5                  | 1.65    | 14.64   | 6.78    | 30  | 19.40                | 359.30  | 244.58  | 30  | 2.22              | 73.40   | 18.02   | 30  |
| 6                  | 2.93    | 14.28   | 7.38    | 30  | 4.83                 | 352.00  | 242.43  | 30  | 2.58              | 50.60   | 13.85   | 30  |
| 7                  | 1.70    | 14.06   | 7.26    | 30  | 1.69                 | 348.30  | 236.34  | 30  | 2.64              | 43.49   | 11.88   | 30  |
| 8                  | 1.74    | 23.98   | 8.41    | 30  | 3.29                 | 340.90  | 262.05  | 30  | 4.52              | 32.88   | 13.75   | 30  |
| 9                  | 2.18    | 17.89   | 7.88    | 30  | 8.10                 | 357.40  | 257.09  | 30  | 6.69              | 67.05   | 18.54   | 30  |
| 10                 | 2.32    | 19.79   | 7.75    | 30  | 0.56                 | 351.20  | 44.73   | 30  | 8.88              | 72.10   | 27.26   | 30  |
| 11                 | 2.72    | 18.15   | 8.25    | 30  | 0.64                 | 355.70  | 84.28   | 30  | 4.39              | 65.05   | 27.62   | 30  |
| 12                 | 4.05    | 21.55   | 8.97    | 30  | 5.53                 | 355.50  | 65.04   | 30  | 4.53              | 61.94   | 27.93   | 30  |
| 13                 | 4.00    | 21.91   | 9.63    | 30  | 1.34                 | 359.30  | 82.70   | 30  | 6.30              | 65.60   | 28.64   | 30  |
| 14                 | 3.82    | 26.34   | 10.96   | 30  | 0.74                 | 351.20  | 34.31   | 30  | 6.96              | 73.20   | 27.58   | 30  |
| 15                 | 3.62    | 28.20   | 11.50   | 30  | 0.81                 | 349.50  | 35.49   | 30  | 9.35              | 61.19   | 25.09   | 30  |
| 16                 | 4.50    | 27.55   | 11.48   | 30  | 5.39                 | 357.00  | 46.07   | 30  | 7.36              | 54.76   | 22.77   | 30  |
| 17                 | 3.81    | 24.96   | 11.21   | 30  | 14.11                | 353.10  | 36.57   | 30  | 6.29              | 56.11   | 18.85   | 30  |
| 18                 | 4.73    | 24.03   | 11.09   | 30  | 2.51                 | 349.80  | 33.80   | 30  | 3.74              | 55.55   | 16.25   | 30  |
| 19                 | 5.19    | 19.67   | 10.95   | 30  | 3.04                 | 349.90  | 16.99   | 30  | 3.16              | 34.84   | 11.60   | 30  |
| 20                 | 3.24    | 27.88   | 10.53   | 30  | 0.83                 | 350.20  | 299.35  | 30  | 5.63              | 63.20   | 16.34   | 30  |
| 21                 | 3.28    | 22.06   | 9.95    | 30  | 8.99                 | 350.80  | 132.82  | 30  | 3.92              | 36.47   | 14.46   | 30  |
| 22                 | 2.72    | 25.37   | 9.37    | 30  | 6.42                 | 345.40  | 176.57  | 30  | 3.12              | 42.58   | 14.52   | 30  |
| 23                 | 3.14    | 23.60   | 9.10    | 30  | 16.18                | 359.50  | 177.07  | 30  | 3.55              | 70.80   | 20.50   | 30  |
| 24                 | 1.67    | 17.47   | 8.33    | 30  | 17.82                | 343.90  | 186.41  | 30  | 4.03              | 58.28   | 15.54   | 30  |
|                    | 1.65    | 28.20   | 9.10    | 720 | 0.56                 | 359.50  | 225.66  | 1   | 1.92              | 73.40   | 19.06   | 720 |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: RMA(COMPOSITE)

Period: 4/ 1/91 thru 4/30/91

Month and year of record: APRIL, 91

| TEMPERATURE (DEG F) |         |         |         |     | PRESSURE (IN. HG) |         |         |     | PRECIPITATION (IN) |         |       |     |
|---------------------|---------|---------|---------|-----|-------------------|---------|---------|-----|--------------------|---------|-------|-----|
| HR                  | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM           | MAXIMUM | AVERAGE | OBS | MINIMUM            | MAXIMUM | TOTAL | OBS |
| 1                   | 26.45   | 58.39   | 41.72   | 30  | 24.17             | 24.81   | 24.55   | 30  | 0.00               | 0.08    | 0.11  | 30  |
| 2                   | 25.29   | 59.12   | 40.86   | 30  | 24.17             | 24.81   | 24.55   | 30  | 0.00               | 0.04    | 0.06  | 30  |
| 3                   | 23.99   | 59.76   | 40.13   | 30  | 24.17             | 24.81   | 24.55   | 30  | 0.00               | 0.06    | 0.16  | 30  |
| 4                   | 20.20   | 56.88   | 39.22   | 30  | 24.17             | 24.81   | 24.54   | 30  | 0.00               | 0.06    | 0.15  | 30  |
| 5                   | 20.72   | 55.77   | 38.13   | 30  | 24.18             | 24.81   | 24.54   | 30  | 0.00               | 0.10    | 0.14  | 30  |
| 6                   | 19.38   | 54.61   | 37.63   | 30  | 24.19             | 24.82   | 24.54   | 30  | 0.00               | 0.05    | 0.09  | 30  |
| 7                   | 21.29   | 55.06   | 38.45   | 30  | 24.20             | 24.83   | 24.55   | 30  | 0.00               | 0.01    | 0.02  | 30  |
| 8                   | 23.84   | 56.45   | 41.02   | 30  | 24.21             | 24.82   | 24.55   | 30  | 0.00               | 0.00    | 0.00  | 30  |
| 9                   | 28.08   | 63.98   | 44.17   | 30  | 24.20             | 24.81   | 24.55   | 30  | 0.00               | 0.00    | 0.00  | 30  |
| 10                  | 31.08   | 70.50   | 47.41   | 30  | 24.19             | 24.81   | 24.54   | 30  | 0.00               | 0.00    | 0.00  | 30  |
| 11                  | 31.05   | 73.90   | 49.92   | 30  | 24.20             | 24.80   | 24.53   | 30  | 0.00               | 0.00    | 0.00  | 30  |
| 12                  | 30.46   | 76.40   | 51.80   | 30  | 24.19             | 24.78   | 24.52   | 30  | 0.00               | 0.00    | 0.00  | 30  |
| 13                  | 32.20   | 78.30   | 52.94   | 30  | 24.15             | 24.76   | 24.50   | 30  | 0.00               | 0.00    | 0.00  | 30  |
| 14                  | 31.58   | 79.40   | 53.65   | 30  | 24.13             | 24.74   | 24.49   | 30  | 0.00               | 0.00    | 0.00  | 30  |
| 15                  | 31.98   | 78.90   | 53.95   | 30  | 24.12             | 24.71   | 24.49   | 30  | 0.00               | 0.00    | 0.00  | 30  |
| 16                  | 31.42   | 78.30   | 54.08   | 30  | 24.12             | 24.71   | 24.48   | 30  | 0.00               | 0.00    | 0.00  | 30  |
| 17                  | 30.77   | 77.90   | 53.91   | 30  | 24.12             | 24.73   | 24.49   | 30  | 0.00               | 0.00    | 0.00  | 30  |
| 18                  | 29.57   | 74.60   | 52.61   | 30  | 24.11             | 24.73   | 24.50   | 30  | 0.00               | 0.00    | 0.00  | 30  |
| 19                  | 28.94   | 73.10   | 50.37   | 30  | 24.12             | 24.73   | 24.51   | 30  | 0.00               | 0.03    | 0.03  | 30  |
| 20                  | 27.83   | 71.80   | 48.01   | 30  | 24.11             | 24.76   | 24.53   | 30  | 0.00               | 0.00    | 0.00  | 30  |
| 21                  | 26.86   | 67.18   | 45.94   | 30  | 24.11             | 24.77   | 24.54   | 30  | 0.00               | 0.00    | 0.00  | 30  |
| 22                  | 26.33   | 62.80   | 44.76   | 30  | 24.12             | 24.79   | 24.55   | 30  | 0.00               | 0.00    | 0.00  | 30  |
| 23                  | 26.24   | 61.35   | 43.16   | 30  | 24.13             | 24.80   | 24.55   | 30  | 0.00               | 0.06    | 0.07  | 30  |
| 24                  | 26.61   | 60.51   | 41.96   | 30  | 24.16             | 24.81   | 24.56   | 30  | 0.00               | 0.10    | 0.17  | 30  |
| 19.38               | 79.40   | 46.08   | 720     |     | 24.11             | 24.83   | 24.53   | 720 | 0.00               | 0.10    | 0.00  | 720 |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: RMA(COMPOSITE)

Period: 4/ 1/91 thru 4/30/91

Month and year of record: APRIL, 91

| SOLAR RADIATION (LY/YR) |         |         |         |     | RELATIVE HUMIDITY (%) |         |         |     | PEAK WIND SPEED (M/SEC) |         |         |     |
|-------------------------|---------|---------|---------|-----|-----------------------|---------|---------|-----|-------------------------|---------|---------|-----|
| HR                      | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM               | MAXIMUM | AVERAGE | OBS | MINIMUM                 | MAXIMUM | AVERAGE | OBS |
| 1                       | -0.01   | 0.00    | -0.00   | 15  | 15.79                 | 100.90  | 62.12   | 30  | 5.96                    | 25.29   | 12.79   | 30  |
| 2                       | -0.01   | 0.00    | -0.00   | 16  | 15.64                 | 101.10  | 64.40   | 30  | 5.87                    | 23.98   | 12.54   | 30  |
| 3                       | -0.01   | 0.00    | -0.01   | 16  | 15.37                 | 101.20  | 66.20   | 30  | 5.52                    | 24.25   | 11.67   | 30  |
| 4                       | -0.01   | 0.00    | -0.01   | 16  | 15.98                 | 101.20  | 67.18   | 30  | 4.59                    | 30.45   | 11.43   | 30  |
| 5                       | -0.01   | 0.00    | -0.00   | 16  | 16.83                 | 101.30  | 68.95   | 30  | 3.77                    | 26.70   | 10.45   | 30  |
| 6                       | -0.00   | 0.06    | 0.03    | 16  | 17.53                 | 101.30  | 70.07   | 30  | 6.13                    | 27.96   | 11.72   | 29  |
| 7                       | 0.03    | 0.35    | 0.17    | 16  | 17.91                 | 101.30  | 69.84   | 30  | 4.66                    | 32.17   | 12.13   | 29  |
| 8                       | 0.06    | 0.70    | 0.42    | 16  | 17.64                 | 101.50  | 64.89   | 30  | 5.07                    | 33.51   | 13.25   | 29  |
| 9                       | 0.12    | 1.10    | 0.67    | 16  | 15.27                 | 101.50  | 57.27   | 30  | 4.66                    | 28.58   | 12.73   | 30  |
| 10                      | 0.24    | 1.32    | 0.88    | 16  | 13.49                 | 101.50  | 50.49   | 30  | 5.79                    | 32.69   | 14.19   | 30  |
| 11                      | 0.46    | 1.59    | 1.21    | 17  | 12.67                 | 101.40  | 45.36   | 30  | 6.13                    | 32.40   | 15.17   | 30  |
| 12                      | 0.37    | 1.65    | 1.30    | 17  | 12.09                 | 100.70  | 42.47   | 30  | 6.22                    | 41.24   | 16.78   | 30  |
| 13                      | 0.51    | 1.59    | 1.18    | 16  | 11.78                 | 98.90   | 40.06   | 30  | 9.79                    | 35.75   | 18.92   | 30  |
| 14                      | 0.19    | 1.47    | 0.95    | 16  | 11.59                 | 97.20   | 37.98   | 30  | 9.76                    | 36.78   | 20.67   | 30  |
| 15                      | 0.14    | 1.26    | 0.82    | 15  | 11.57                 | 94.30   | 37.02   | 30  | 8.29                    | 39.56   | 19.82   | 30  |
| 16                      | 0.15    | 0.99    | 0.64    | 15  | 11.62                 | 95.20   | 37.02   | 30  | 11.25                   | 40.72   | 19.77   | 30  |
| 17                      | 0.07    | 0.63    | 0.40    | 15  | 11.77                 | 95.80   | 36.71   | 30  | 8.60                    | 38.17   | 19.89   | 30  |
| 18                      | 0.03    | 0.36    | 0.17    | 15  | 12.39                 | 95.40   | 38.00   | 30  | 8.40                    | 32.81   | 17.86   | 30  |
| 19                      | 0.00    | 0.04    | 0.02    | 15  | 12.77                 | 97.30   | 41.75   | 30  | 6.82                    | 29.22   | 16.65   | 30  |
| 20                      | -0.01   | -0.00   | -0.01   | 15  | 12.92                 | 97.70   | 46.95   | 30  | 5.97                    | 37.48   | 17.10   | 30  |
| 21                      | -0.01   | -0.00   | -0.01   | 15  | 13.73                 | 98.70   | 52.36   | 30  | 5.02                    | 42.01   | 15.54   | 30  |
| 22                      | -0.01   | -0.00   | -0.01   | 15  | 14.51                 | 98.60   | 55.20   | 30  | 5.82                    | 37.44   | 15.22   | 30  |
| 23                      | -0.01   | -0.00   | -0.00   | 15  | 15.10                 | 99.00   | 60.24   | 30  | 5.44                    | 35.31   | 15.01   | 30  |
| 24                      | -0.01   | -0.00   | -0.00   | 15  | 15.66                 | 100.80  | 62.93   | 30  | 4.72                    | 36.54   | 13.42   | 30  |
|                         | -0.01   | 1.65    | 0.38    | 375 | 11.57                 | 101.50  | 53.14   | 720 | 3.77                    | 42.01   | 15.21   | 717 |



WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: RMA(COMPOSITE)

Period: 4/ 1/91 thru 4/30/91

Month and year of record: APRIL, 91

| TEMP DIFFERENCE (DEG F) |         |         |         |     | P-G STABILITY |         |         |     |
|-------------------------|---------|---------|---------|-----|---------------|---------|---------|-----|
| HR                      | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM       | MAXIMUM | AVERAGE | OBS |
| 1                       | -0.17   | 8.09    | 1.95    | 30  | 4.00          | 6.00    | 4.67    | 30  |
| 2                       | -0.17   | 4.66    | 1.73    | 30  | 4.00          | 6.00    | 4.67    | 30  |
| 3                       | -0.17   | 3.88    | 1.75    | 30  | 4.00          | 6.00    | 4.80    | 30  |
| 4                       | -0.15   | 4.23    | 1.84    | 30  | 4.00          | 6.00    | 4.77    | 30  |
| 5                       | -0.13   | 7.13    | 2.15    | 30  | 4.00          | 6.00    | 4.73    | 30  |
| 6                       | -0.18   | 5.37    | 1.92    | 30  | 4.00          | 6.00    | 4.70    | 30  |
| 7                       | -0.37   | 4.38    | 0.74    | 30  | 3.00          | 6.00    | 4.23    | 30  |
| 8                       | -0.82   | 2.39    | -0.22   | 30  | 1.00          | 4.00    | 3.10    | 30  |
| 9                       | -1.21   | 0.16    | -0.59   | 30  | 1.00          | 4.00    | 2.73    | 30  |
| 10                      | -1.40   | 0.10    | -0.75   | 30  | 1.00          | 4.00    | 2.23    | 30  |
| 11                      | -1.65   | 0.41    | -0.87   | 30  | 1.00          | 4.00    | 2.00    | 30  |
| 12                      | -1.79   | 0.77    | -0.96   | 30  | 1.00          | 4.00    | 1.90    | 30  |
| 13                      | -1.79   | 0.07    | -0.98   | 30  | 1.00          | 4.00    | 1.97    | 30  |
| 14                      | -1.73   | -0.27   | -0.94   | 30  | 1.00          | 4.00    | 2.23    | 30  |
| 15                      | -1.50   | -0.43   | -0.91   | 30  | 1.00          | 4.00    | 2.27    | 30  |
| 16                      | -1.28   | -0.33   | -0.74   | 30  | 1.00          | 4.00    | 2.57    | 30  |
| 17                      | -0.91   | -0.05   | -0.43   | 30  | 1.00          | 4.00    | 2.90    | 30  |
| 18                      | -0.46   | 3.29    | 0.21    | 30  | 1.00          | 5.00    | 3.60    | 30  |
| 19                      | -0.26   | 4.63    | 1.14    | 30  | 4.00          | 5.00    | 4.27    | 30  |
| 20                      | -0.02   | 5.72    | 1.65    | 30  | 4.00          | 6.00    | 4.33    | 30  |
| 21                      | -0.10   | 7.64    | 1.73    | 30  | 4.00          | 6.00    | 4.50    | 30  |
| 22                      | -0.13   | 6.41    | 1.73    | 30  | 4.00          | 6.00    | 4.67    | 30  |
| 23                      | -0.09   | 6.71    | 1.75    | 30  | 4.00          | 6.00    | 4.57    | 30  |
| 24                      | -0.10   | 4.94    | 1.83    | 30  | 4.00          | 6.00    | 4.60    | 30  |
|                         | -1.79   | 8.09    | 0.61    | 720 | 1.00          | 6.00    | 3.63    | 720 |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: RMA(COMPOSITE)

Period: 5/ 1/91 thru 5/31/91

Month and year of record: MAY, 91

| WIND SPEED (M/SEC) |         |         |         |     | WIND DIRECTION (DEG) |         |         |     | SIGMA THETA (DEG) |         |         |     |
|--------------------|---------|---------|---------|-----|----------------------|---------|---------|-----|-------------------|---------|---------|-----|
| HR                 | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM              | MAXIMUM | AVERAGE | OBS | MINIMUM           | MAXIMUM | AVERAGE | OBS |
| 1                  | 2.21    | 31.03   | 9.21    | 31  | 2.94                 | 330.20  | 203.72  | 31  | 4.14              | 51.25   | 15.67   | 31  |
| 2                  | 2.97    | 30.11   | 8.90    | 31  | 1.60                 | 317.40  | 192.46  | 31  | 3.54              | 75.70   | 19.62   | 31  |
| 3                  | 0.88    | 23.58   | 8.49    | 31  | 17.18                | 344.00  | 191.19  | 31  | 3.66              | 45.51   | 15.57   | 31  |
| 4                  | 0.88    | 17.94   | 7.93    | 31  | 9.82                 | 359.30  | 202.57  | 31  | 3.39              | 53.75   | 14.75   | 31  |
| 5                  | 0.87    | 19.04   | 7.59    | 31  | 6.69                 | 356.50  | 200.81  | 31  | 3.73              | 46.84   | 16.43   | 31  |
| 6                  | 2.45    | 25.49   | 7.48    | 31  | 15.67                | 340.60  | 178.61  | 31  | 3.69              | 42.81   | 14.51   | 31  |
| 7                  | 1.15    | 25.99   | 7.94    | 31  | 5.61                 | 353.90  | 187.89  | 31  | 3.12              | 46.67   | 16.73   | 31  |
| 8                  | 1.49    | 26.82   | 9.16    | 31  | 0.16                 | 344.40  | 213.66  | 31  | 3.33              | 56.16   | 20.24   | 31  |
| 9                  | 1.93    | 27.17   | 8.57    | 31  | 1.72                 | 358.50  | 238.23  | 31  | 3.69              | 57.47   | 24.63   | 31  |
| 10                 | 2.51    | 23.50   | 8.88    | 31  | 0.60                 | 353.10  | 17.48   | 31  | 5.19              | 70.30   | 26.60   | 31  |
| 11                 | 2.20    | 24.24   | 9.42    | 31  | 1.59                 | 359.70  | 65.09   | 31  | 9.16              | 56.91   | 26.94   | 31  |
| 12                 | 3.23    | 27.01   | 10.76   | 31  | 3.52                 | 354.10  | 71.78   | 31  | 8.77              | 68.81   | 29.43   | 31  |
| 13                 | 4.52    | 28.95   | 12.96   | 31  | 0.14                 | 358.90  | 111.05  | 31  | 5.64              | 67.91   | 24.44   | 31  |
| 14                 | 3.17    | 30.37   | 13.75   | 31  | 36.81                | 359.20  | 115.80  | 31  | 6.64              | 57.56   | 22.07   | 31  |
| 15                 | 3.82    | 38.41   | 14.88   | 31  | 6.04                 | 360.00  | 113.76  | 31  | 5.76              | 60.12   | 21.18   | 31  |
| 16                 | 5.60    | 38.11   | 15.01   | 31  | 2.54                 | 359.00  | 71.08   | 31  | 5.89              | 49.03   | 18.94   | 31  |
| 17                 | 5.04    | 32.46   | 15.41   | 31  | 2.41                 | 326.10  | 94.87   | 31  | 5.53              | 70.80   | 17.25   | 31  |
| 18                 | 4.44    | 32.81   | 15.55   | 31  | 3.78                 | 358.10  | 80.93   | 31  | 4.42              | 54.58   | 16.54   | 31  |
| 19                 | 6.32    | 26.82   | 12.94   | 31  | 1.81                 | 345.40  | 83.52   | 31  | 3.31              | 53.85   | 17.09   | 31  |
| 20                 | 3.30    | 32.23   | 12.55   | 31  | 1.31                 | 337.60  | 75.83   | 31  | 3.28              | 59.39   | 17.25   | 31  |
| 21                 | 3.70    | 38.21   | 11.95   | 31  | 3.28                 | 349.40  | 92.33   | 31  | 3.48              | 41.46   | 16.36   | 31  |
| 22                 | 3.38    | 36.17   | 10.89   | 31  | 8.59                 | 345.50  | 173.62  | 31  | 4.32              | 52.47   | 19.59   | 31  |
| 23                 | 3.38    | 35.74   | 10.77   | 31  | 3.95                 | 350.30  | 227.37  | 31  | 4.80              | 66.78   | 17.52   | 31  |
| 24                 | 3.21    | 34.53   | 9.61    | 31  | 0.89                 | 347.20  | 226.15  | 31  | 3.99              | 34.22   | 16.05   | 31  |
|                    | 0.87    | 38.41   | 10.86   | 744 | 0.14                 | 360.00  | 149.79  | 744 | 3.12              | 75.70   | 19.39   | 744 |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: RMA(COMPOSITE)

Period: 5/ 1/91 thru 5/31/91

Month and year of record: MAY, 91

| TEMPERATURE (DEG F) |         |         |         |     | PRESSURE (IN. HG) |         |         |     | PRECIPITATION (IN) |         |       |     |
|---------------------|---------|---------|---------|-----|-------------------|---------|---------|-----|--------------------|---------|-------|-----|
| HR                  | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM           | MAXIMUM | AVERAGE | OBS | MINIMUM            | MAXIMUM | TOTAL | OBS |
| 1                   | 34.70   | 66.28   | 52.42   | 31  | 24.31             | 24.80   | 24.57   | 22  | 0.00               | 0.00    | 0.00  | 31  |
| 2                   | 34.75   | 65.39   | 51.66   | 31  | 24.32             | 24.80   | 24.57   | 22  | 0.00               | 0.00    | 0.00  | 31  |
| 3                   | 34.99   | 63.92   | 50.85   | 31  | 24.33             | 24.80   | 24.57   | 22  | 0.00               | 0.01    | 0.02  | 31  |
| 4                   | 33.03   | 62.58   | 50.11   | 31  | 24.35             | 24.81   | 24.57   | 21  | 0.00               | 0.00    | 0.00  | 31  |
| 5                   | 31.78   | 62.43   | 49.11   | 31  | 24.35             | 24.81   | 24.58   | 21  | 0.00               | 0.00    | 0.00  | 31  |
| 6                   | 31.16   | 63.19   | 49.22   | 31  | 24.37             | 24.83   | 24.59   | 22  | 0.00               | 0.01    | 0.01  | 31  |
| 7                   | 33.44   | 63.97   | 51.49   | 31  | 24.38             | 24.83   | 24.59   | 22  | 0.00               | 0.06    | 0.06  | 31  |
| 8                   | 37.45   | 67.80   | 54.68   | 31  | 24.40             | 24.82   | 24.59   | 22  | 0.00               | 0.06    | 0.06  | 31  |
| 9                   | 40.50   | 71.50   | 57.12   | 31  | 24.40             | 24.82   | 24.58   | 22  | 0.00               | 0.07    | 0.07  | 31  |
| 10                  | 41.68   | 75.80   | 59.78   | 31  | 24.39             | 24.82   | 24.58   | 22  | 0.00               | 0.00    | 0.00  | 31  |
| 11                  | 43.84   | 79.10   | 62.54   | 31  | 24.37             | 24.81   | 24.57   | 22  | 0.00               | 0.00    | 0.00  | 31  |
| 12                  | 43.02   | 81.50   | 64.84   | 31  | 24.34             | 24.80   | 24.55   | 22  | 0.00               | 0.01    | 0.01  | 31  |
| 13                  | 40.67   | 83.00   | 66.35   | 31  | 24.31             | 24.79   | 24.54   | 22  | 0.00               | 0.17    | 0.17  | 31  |
| 14                  | 40.37   | 84.30   | 67.42   | 31  | 24.29             | 24.78   | 24.53   | 22  | 0.00               | 0.16    | 0.20  | 31  |
| 15                  | 36.65   | 82.50   | 67.81   | 31  | 24.28             | 24.77   | 24.51   | 22  | 0.00               | 0.18    | 0.33  | 31  |
| 16                  | 36.99   | 83.30   | 67.65   | 31  | 24.28             | 24.76   | 24.50   | 22  | 0.00               | 0.09    | 0.09  | 31  |
| 17                  | 37.45   | 83.00   | 67.14   | 31  | 24.26             | 24.76   | 24.50   | 22  | 0.00               | 0.04    | 0.04  | 31  |
| 18                  | 37.69   | 80.50   | 65.81   | 31  | 24.26             | 24.75   | 24.49   | 20  | 0.00               | 0.52    | 0.55  | 31  |
| 19                  | 36.77   | 78.00   | 63.10   | 31  | 24.25             | 24.75   | 24.51   | 21  | 0.00               | 0.33    | 0.35  | 31  |
| 20                  | 36.35   | 75.90   | 59.87   | 31  | 24.25             | 24.76   | 24.51   | 20  | 0.00               | 0.38    | 0.38  | 31  |
| 21                  | 36.00   | 70.60   | 57.68   | 31  | 24.25             | 24.77   | 24.54   | 21  | 0.00               | 0.12    | 0.19  | 31  |
| 22                  | 35.15   | 69.06   | 56.26   | 31  | 24.26             | 24.78   | 24.56   | 21  | 0.00               | 0.23    | 0.35  | 31  |
| 23                  | 34.65   | 68.37   | 55.28   | 31  | 24.27             | 24.80   | 24.57   | 21  | 0.00               | 0.12    | 0.18  | 31  |
| 24                  | 33.88   | 67.57   | 54.15   | 31  | 24.30             | 24.80   | 24.56   | 21  | 0.00               | 0.01    | 0.02  | 31  |
|                     | 31.16   | 84.30   | 58.43   | 744 | 24.25             | 24.83   | 24.55   | 517 | 0.00               | 0.52    | 3.08  | 744 |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: RMA(COMPOSITE)

Period: 5/ 1/91 thru 5/31/91

Month and year of record: MAY, 91

| SOLAR RADIATION (LY/YR) |         |         |         |     | RELATIVE HUMIDITY (%) |         |         |     | PEAK WIND SPEED (M/SEC) |         |         |     |
|-------------------------|---------|---------|---------|-----|-----------------------|---------|---------|-----|-------------------------|---------|---------|-----|
| HR                      | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM               | MAXIMUM | AVERAGE | OBS | MINIMUM                 | MAXIMUM | AVERAGE | OBS |
| 1                       | -0.01   | -0.00   | -0.01   | 31  | 15.86                 | 99.20   | 66.95   | 31  | 4.63                    | 39.98   | 16.00   | 22  |
| 2                       | -0.01   | -0.00   | -0.01   | 31  | 19.36                 | 99.10   | 68.88   | 31  | 5.20                    | 38.47   | 16.25   | 22  |
| 3                       | -0.01   | 0.00    | -0.01   | 31  | 17.49                 | 99.10   | 70.59   | 31  | 3.67                    | 37.58   | 14.44   | 22  |
| 4                       | -0.01   | -0.00   | -0.01   | 31  | 19.17                 | 98.90   | 71.63   | 31  | 3.32                    | 29.19   | 13.30   | 22  |
| 5                       | -0.01   | 0.01    | -0.00   | 31  | 21.18                 | 98.80   | 73.35   | 31  | 2.70                    | 32.41   | 12.70   | 22  |
| 6                       | 0.01    | 0.17    | 0.09    | 31  | 22.18                 | 98.40   | 74.01   | 31  | 4.69                    | 31.75   | 12.69   | 22  |
| 7                       | 0.02    | 0.47    | 0.32    | 31  | 23.30                 | 97.90   | 71.18   | 31  | 4.43                    | 32.16   | 13.82   | 22  |
| 8                       | 0.07    | 0.78    | 0.60    | 31  | 16.64                 | 97.30   | 63.73   | 31  | 4.64                    | 36.08   | 14.90   | 22  |
| 9                       | 0.12    | 1.10    | 0.82    | 31  | 15.77                 | 97.10   | 58.10   | 31  | 5.87                    | 35.48   | 15.61   | 22  |
| 10                      | 0.14    | 1.37    | 1.01    | 31  | 12.99                 | 96.60   | 51.22   | 31  | 6.12                    | 30.79   | 16.55   | 22  |
| 11                      | 0.52    | 1.56    | 1.23    | 31  | 11.95                 | 94.40   | 46.17   | 31  | 6.59                    | 33.08   | 19.13   | 22  |
| 12                      | 0.33    | 1.67    | 1.34    | 31  | 11.36                 | 89.30   | 41.65   | 31  | 10.17                   | 39.41   | 21.50   | 22  |
| 13                      | 0.15    | 1.65    | 1.22    | 31  | 11.29                 | 95.10   | 37.52   | 31  | 12.35                   | 54.17   | 25.14   | 22  |
| 14                      | 0.04    | 1.53    | 1.14    | 31  | 11.08                 | 95.60   | 35.32   | 31  | 12.66                   | 41.57   | 25.63   | 22  |
| 15                      | 0.03    | 1.31    | 0.88    | 31  | 11.11                 | 97.40   | 34.42   | 31  | 12.55                   | 47.84   | 25.89   | 22  |
| 16                      | 0.05    | 1.05    | 0.70    | 31  | 11.02                 | 98.60   | 34.90   | 31  | 10.25                   | 62.04   | 25.29   | 22  |
| 17                      | 0.06    | 0.77    | 0.44    | 31  | 11.00                 | 97.80   | 35.35   | 31  | 10.92                   | 45.87   | 26.78   | 22  |
| 18                      | 0.04    | 0.41    | 0.22    | 31  | 11.39                 | 97.80   | 38.09   | 31  | 8.42                    | 43.44   | 24.89   | 22  |
| 19                      | 0.00    | 0.12    | 0.05    | 31  | 11.86                 | 98.40   | 43.21   | 31  | 7.86                    | 40.58   | 21.06   | 21  |
| 20                      | -0.01   | 0.00    | -0.00   | 31  | 12.32                 | 99.00   | 51.85   | 31  | 8.09                    | 48.87   | 21.95   | 21  |
| 21                      | -0.01   | 0.00    | -0.01   | 31  | 13.67                 | 99.00   | 56.35   | 31  | 9.56                    | 47.94   | 20.22   | 21  |
| 22                      | -0.01   | -0.00   | -0.01   | 31  | 14.56                 | 98.90   | 59.54   | 31  | 7.09                    | 46.34   | 19.08   | 21  |
| 23                      | -0.01   | -0.00   | -0.01   | 31  | 14.76                 | 99.20   | 62.64   | 31  | 7.43                    | 46.40   | 19.52   | 21  |
| 24                      | -0.01   | -0.00   | -0.01   | 31  | 15.24                 | 99.20   | 65.61   | 31  | 6.34                    | 45.70   | 16.73   | 21  |
|                         | -0.01   | 1.67    | 0.42    | 744 | 11.00                 | 99.20   | 54.68   | 744 | 2.70                    | 62.04   | 19.13   | 522 |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: RMA(COMPOSITE)

Period: 5/ 1/91 thru 5/31/91

Month and year of record: MAY, 91

| TEMP DIFFERENCE (DEG F) |         |         |         |     | P-G STABILITY |         |         |     |
|-------------------------|---------|---------|---------|-----|---------------|---------|---------|-----|
| HR                      | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM       | MAXIMUM | AVERAGE | OBS |
| 1                       | -0.29   | 7.13    | 1.96    | 31  | 4.00          | 6.00    | 4.45    | 31  |
| 2                       | -0.21   | 4.75    | 1.81    | 31  | 4.00          | 6.00    | 4.74    | 31  |
| 3                       | -0.19   | 7.58    | 1.99    | 31  | 4.00          | 6.00    | 4.58    | 31  |
| 4                       | -0.17   | 6.23    | 2.19    | 31  | 4.00          | 6.00    | 4.52    | 31  |
| 5                       | -0.17   | 5.62    | 2.14    | 31  | 4.00          | 6.00    | 4.71    | 31  |
| 6                       | -0.19   | 5.95    | 1.34    | 31  | 4.00          | 6.00    | 4.45    | 31  |
| 7                       | -0.71   | 3.53    | -0.06   | 31  | 1.00          | 4.00    | 2.74    | 31  |
| 8                       | -1.23   | 0.10    | -0.52   | 31  | 1.00          | 4.00    | 2.55    | 31  |
| 9                       | -1.40   | -0.24   | -0.70   | 31  | 1.00          | 4.00    | 2.19    | 31  |
| 10                      | -1.75   | -0.21   | -0.85   | 31  | 1.00          | 4.00    | 2.16    | 31  |
| 11                      | -1.97   | 0.09    | -1.04   | 31  | 1.00          | 4.00    | 2.03    | 31  |
| 12                      | -1.93   | 0.16    | -1.07   | 31  | 1.00          | 4.00    | 1.97    | 31  |
| 13                      | -1.98   | 0.19    | -0.99   | 31  | 1.00          | 4.00    | 2.26    | 31  |
| 14                      | -1.93   | 1.36    | -0.92   | 31  | 1.00          | 4.00    | 2.48    | 31  |
| 15                      | -1.63   | 1.39    | -0.67   | 31  | 1.00          | 4.00    | 2.55    | 31  |
| 16                      | -1.37   | 1.29    | -0.51   | 31  | 1.00          | 4.00    | 2.77    | 31  |
| 17                      | -1.12   | 0.95    | -0.20   | 31  | 1.00          | 4.00    | 3.13    | 31  |
| 18                      | -0.35   | 1.43    | 0.21    | 31  | 1.00          | 4.00    | 3.23    | 31  |
| 19                      | -0.35   | 3.70    | 1.02    | 31  | 4.00          | 6.00    | 4.16    | 31  |
| 20                      | -0.27   | 4.24    | 1.02    | 31  | 4.00          | 6.00    | 4.32    | 31  |
| 21                      | -0.21   | 6.39    | 1.39    | 31  | 4.00          | 6.00    | 4.32    | 31  |
| 22                      | -0.23   | 8.26    | 1.82    | 31  | 4.00          | 6.00    | 4.58    | 31  |
| 23                      | -0.25   | 10.29   | 1.79    | 31  | 4.00          | 6.00    | 4.45    | 31  |
| 24                      | -0.28   | 9.08    | 2.04    | 31  | 4.00          | 6.00    | 4.61    | 31  |
|                         | -1.98   | 10.29   | 0.55    | 744 | 1.00          | 6.00    | 3.50    | 744 |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: RMA(COMPOSITE)

Period: 6/ 1/91 thru 6/30/91

Month and year of record: JUNE, 91

| WIND SPEED (M/SEC) |         |         |         |     | WIND DIRECTION (DEG) |         |         |     | SIGMA THETA (DEG) |         |         |     |
|--------------------|---------|---------|---------|-----|----------------------|---------|---------|-----|-------------------|---------|---------|-----|
| HR                 | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM              | MAXIMUM | AVERAGE | OBS | MINIMUM           | MAXIMUM | AVERAGE | OBS |
| 1                  | 2.03    | 14.06   | 7.29    | 30  | 10.78                | 358.30  | 192.78  | 30  | 4.36              | 54.25   | 17.74   | 30  |
| 2                  | 2.38    | 13.16   | 6.70    | 30  | 4.43                 | 349.40  | 198.90  | 30  | 2.31              | 68.92   | 28.51   | 30  |
| 3                  | 1.92    | 12.53   | 6.30    | 30  | 0.38                 | 327.60  | 190.49  | 30  | 3.06              | 76.90   | 26.41   | 30  |
| 4                  | 2.58    | 10.27   | 6.62    | 30  | 12.39                | 343.90  | 200.51  | 30  | 4.02              | 56.10   | 24.09   | 30  |
| 5                  | 1.58    | 14.39   | 7.26    | 30  | 23.70                | 335.50  | 204.03  | 30  | 2.92              | 69.36   | 19.34   | 30  |
| 6                  | 2.32    | 17.71   | 7.32    | 30  | 2.75                 | 342.70  | 202.77  | 30  | 3.81              | 58.09   | 18.64   | 30  |
| 7                  | 2.10    | 18.21   | 6.38    | 30  | 7.42                 | 352.60  | 228.44  | 30  | 4.57              | 63.69   | 25.14   | 30  |
| 8                  | 2.13    | 19.79   | 5.89    | 30  | 20.67                | 357.40  | 246.78  | 30  | 5.34              | 56.94   | 26.25   | 30  |
| 9                  | 2.79    | 18.92   | 5.98    | 30  | 25.55                | 352.40  | 163.18  | 30  | 7.88              | 67.61   | 31.93   | 30  |
| 10                 | 2.04    | 20.06   | 6.48    | 30  | 2.66                 | 354.00  | 101.29  | 30  | 7.31              | 66.01   | 35.52   | 30  |
| 11                 | 2.39    | 17.21   | 7.04    | 30  | 15.74                | 355.80  | 104.66  | 30  | 9.38              | 75.00   | 31.81   | 30  |
| 12                 | 3.84    | 18.29   | 7.34    | 30  | 22.25                | 349.90  | 97.53   | 30  | 11.29             | 62.19   | 33.72   | 30  |
| 13                 | 3.33    | 24.12   | 8.12    | 30  | 2.46                 | 354.00  | 101.19  | 30  | 7.55              | 71.60   | 31.81   | 30  |
| 14                 | 3.64    | 20.03   | 9.49    | 30  | 16.50                | 345.80  | 126.21  | 30  | 6.14              | 60.80   | 29.43   | 30  |
| 15                 | 4.62    | 22.15   | 11.17   | 30  | 0.87                 | 354.20  | 68.96   | 30  | 4.92              | 71.60   | 30.06   | 30  |
| 16                 | 4.50    | 28.67   | 12.37   | 30  | 1.13                 | 358.00  | 47.41   | 30  | 6.09              | 57.83   | 22.39   | 30  |
| 17                 | 4.57    | 24.04   | 13.15   | 30  | 7.79                 | 319.10  | 155.14  | 30  | 5.10              | 68.49   | 21.89   | 30  |
| 18                 | 2.78    | 27.80   | 12.18   | 30  | 8.30                 | 311.70  | 162.18  | 30  | 4.73              | 69.28   | 21.91   | 30  |
| 19                 | 1.32    | 28.09   | 10.24   | 30  | 3.42                 | 345.00  | 214.96  | 30  | 4.65              | 60.13   | 21.17   | 30  |
| 20                 | 2.40    | 27.38   | 9.85    | 30  | 6.75                 | 320.80  | 125.92  | 30  | 3.49              | 60.00   | 20.17   | 30  |
| 21                 | 3.24    | 20.70   | 9.15    | 30  | 6.45                 | 350.40  | 163.80  | 30  | 3.49              | 74.60   | 21.53   | 30  |
| 22                 | 3.59    | 19.64   | 8.65    | 30  | 38.17                | 344.90  | 175.27  | 30  | 4.32              | 72.10   | 27.04   | 30  |
| 23                 | 2.81    | 21.26   | 7.68    | 30  | 41.78                | 336.60  | 193.85  | 30  | 4.28              | 73.90   | 24.08   | 30  |
| 24                 | 2.22    | 20.62   | 7.78    | 30  | 69.12                | 333.10  | 189.23  | 30  | 4.39              | 46.73   | 17.82   | 30  |
| 1.32               | 28.67   | 8.35    | 720     |     | 0.38                 | 358.30  | 169.72  | 720 | 2.31              | 76.90   | 25.35   | 720 |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: RMA(COMPOSITE)

Period: 5/ 1/91 thru 5/31/91

Month and year of record: MAY, 91

| TEMPERATURE (DEG F) |         |         |         |     | PRESSURE (IN. HG) |         |         |     | PRECIPITATION (IN) |         |       |     |
|---------------------|---------|---------|---------|-----|-------------------|---------|---------|-----|--------------------|---------|-------|-----|
| HR                  | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM           | MAXIMUM | AVERAGE | OBS | MINIMUM            | MAXIMUM | TOTAL | OBS |
| 1                   | 34.70   | 66.28   | 52.42   | 31  | 24.31             | 24.80   | 24.57   | 22  | 0.00               | 0.00    | 0.00  | 31  |
| 2                   | 34.75   | 65.39   | 51.66   | 31  | 24.32             | 24.80   | 24.57   | 22  | 0.00               | 0.00    | 0.00  | 31  |
| 3                   | 34.99   | 63.92   | 50.85   | 31  | 24.33             | 24.80   | 24.57   | 22  | 0.00               | 0.01    | 0.02  | 31  |
| 4                   | 33.03   | 62.58   | 50.11   | 31  | 24.35             | 24.81   | 24.57   | 21  | 0.00               | 0.00    | 0.00  | 31  |
| 5                   | 31.78   | 62.43   | 49.11   | 31  | 24.35             | 24.81   | 24.58   | 21  | 0.00               | 0.00    | 0.00  | 31  |
| 6                   | 31.16   | 63.19   | 49.22   | 31  | 24.37             | 24.83   | 24.59   | 22  | 0.00               | 0.01    | 0.01  | 31  |
| 7                   | 33.44   | 63.97   | 51.49   | 31  | 24.38             | 24.83   | 24.59   | 22  | 0.00               | 0.06    | 0.06  | 31  |
| 8                   | 37.45   | 67.80   | 54.68   | 31  | 24.40             | 24.82   | 24.59   | 22  | 0.00               | 0.06    | 0.06  | 31  |
| 9                   | 40.50   | 71.50   | 57.12   | 31  | 24.40             | 24.82   | 24.58   | 22  | 0.00               | 0.07    | 0.07  | 31  |
| 10                  | 41.68   | 75.80   | 59.78   | 31  | 24.39             | 24.82   | 24.58   | 22  | 0.00               | 0.00    | 0.00  | 31  |
| 11                  | 43.84   | 79.10   | 62.54   | 31  | 24.37             | 24.81   | 24.57   | 22  | 0.00               | 0.00    | 0.00  | 31  |
| 12                  | 43.02   | 81.50   | 64.84   | 31  | 24.34             | 24.80   | 24.55   | 22  | 0.00               | 0.01    | 0.01  | 31  |
| 13                  | 40.67   | 83.00   | 66.35   | 31  | 24.31             | 24.79   | 24.54   | 22  | 0.00               | 0.17    | 0.17  | 31  |
| 14                  | 40.37   | 84.30   | 67.42   | 31  | 24.29             | 24.78   | 24.53   | 22  | 0.00               | 0.16    | 0.20  | 31  |
| 15                  | 36.65   | 82.50   | 67.81   | 31  | 24.28             | 24.77   | 24.51   | 22  | 0.00               | 0.18    | 0.33  | 31  |
| 16                  | 36.99   | 83.30   | 67.65   | 31  | 24.28             | 24.76   | 24.50   | 22  | 0.00               | 0.09    | 0.09  | 31  |
| 17                  | 37.45   | 83.00   | 67.14   | 31  | 24.26             | 24.76   | 24.50   | 22  | 0.00               | 0.04    | 0.04  | 31  |
| 18                  | 37.69   | 80.50   | 65.81   | 31  | 24.26             | 24.75   | 24.49   | 20  | 0.00               | 0.52    | 0.55  | 31  |
| 19                  | 36.77   | 78.00   | 63.10   | 31  | 24.25             | 24.75   | 24.51   | 21  | 0.00               | 0.33    | 0.35  | 31  |
| 20                  | 36.35   | 75.90   | 59.87   | 31  | 24.25             | 24.76   | 24.51   | 20  | 0.00               | 0.38    | 0.38  | 31  |
| 21                  | 36.00   | 70.60   | 57.68   | 31  | 24.25             | 24.77   | 24.54   | 21  | 0.00               | 0.12    | 0.19  | 31  |
| 22                  | 35.15   | 69.06   | 56.26   | 31  | 24.26             | 24.78   | 24.56   | 21  | 0.00               | 0.23    | 0.35  | 31  |
| 23                  | 34.65   | 68.37   | 55.28   | 31  | 24.27             | 24.80   | 24.57   | 21  | 0.00               | 0.12    | 0.18  | 31  |
| 24                  | 33.88   | 67.57   | 54.15   | 31  | 24.30             | 24.80   | 24.56   | 21  | 0.00               | 0.01    | 0.02  | 31  |
|                     | 31.16   | 84.30   | 58.43   | 744 | 24.25             | 24.83   | 24.55   | 517 | 0.00               | 0.52    | 3.08  | 744 |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: RMA(COMPOSITE)

Period: 5/ 1/91 thru 5/31/91

Month and year of record: MAY, 91

| SOLAR RADIATION (LY/YR) |         |         |         |     | RELATIVE HUMIDITY (%) |         |         |     | PEAK WIND SPEED (M/SEC) |         |         |     |
|-------------------------|---------|---------|---------|-----|-----------------------|---------|---------|-----|-------------------------|---------|---------|-----|
| HR                      | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM               | MAXIMUM | AVERAGE | OBS | MINIMUM                 | MAXIMUM | AVERAGE | OBS |
| 1                       | -0.01   | -0.00   | -0.01   | 31  | 15.86                 | 99.20   | 66.95   | 31  | 4.63                    | 39.98   | 16.00   | 22  |
| 2                       | -0.01   | -0.00   | -0.01   | 31  | 19.36                 | 99.10   | 68.88   | 31  | 5.20                    | 38.47   | 16.25   | 22  |
| 3                       | -0.01   | 0.00    | -0.01   | 31  | 17.49                 | 99.10   | 70.59   | 31  | 3.67                    | 37.58   | 14.44   | 22  |
| 4                       | -0.01   | -0.00   | -0.01   | 31  | 19.17                 | 98.90   | 71.63   | 31  | 3.32                    | 29.19   | 13.30   | 22  |
| 5                       | -0.01   | 0.01    | -0.00   | 31  | 21.18                 | 98.80   | 73.35   | 31  | 2.70                    | 32.41   | 12.70   | 22  |
| 6                       | 0.01    | 0.17    | 0.09    | 31  | 22.18                 | 98.40   | 74.01   | 31  | 4.69                    | 31.75   | 12.69   | 22  |
| 7                       | 0.02    | 0.47    | 0.32    | 31  | 23.30                 | 97.90   | 71.18   | 31  | 4.43                    | 32.16   | 13.82   | 22  |
| 8                       | 0.07    | 0.78    | 0.60    | 31  | 16.64                 | 97.30   | 63.73   | 31  | 4.64                    | 36.08   | 14.90   | 22  |
| 9                       | 0.12    | 1.10    | 0.82    | 31  | 15.77                 | 97.10   | 58.10   | 31  | 5.87                    | 35.48   | 15.61   | 22  |
| 10                      | 0.14    | 1.37    | 1.01    | 31  | 12.99                 | 96.60   | 51.22   | 31  | 6.12                    | 30.79   | 16.55   | 22  |
| 11                      | 0.52    | 1.56    | 1.23    | 31  | 11.95                 | 94.40   | 46.17   | 31  | 6.59                    | 33.08   | 19.13   | 22  |
| 12                      | 0.33    | 1.67    | 1.34    | 31  | 11.36                 | 89.30   | 41.65   | 31  | 10.17                   | 39.41   | 21.50   | 22  |
| 13                      | 0.15    | 1.65    | 1.22    | 31  | 11.29                 | 95.10   | 37.52   | 31  | 12.35                   | 54.17   | 25.14   | 22  |
| 14                      | 0.04    | 1.53    | 1.14    | 31  | 11.08                 | 95.60   | 35.32   | 31  | 12.66                   | 41.57   | 25.63   | 22  |
| 15                      | 0.03    | 1.31    | 0.88    | 31  | 11.11                 | 97.40   | 34.42   | 31  | 12.55                   | 47.84   | 25.89   | 22  |
| 16                      | 0.05    | 1.05    | 0.70    | 31  | 11.02                 | 98.60   | 34.90   | 31  | 10.25                   | 62.04   | 25.29   | 22  |
| 17                      | 0.06    | 0.77    | 0.44    | 31  | 11.00                 | 97.80   | 35.35   | 31  | 10.92                   | 45.87   | 26.78   | 22  |
| 18                      | 0.04    | 0.41    | 0.22    | 31  | 11.39                 | 97.80   | 38.09   | 31  | 8.42                    | 43.44   | 24.89   | 22  |
| 19                      | 0.00    | 0.12    | 0.05    | 31  | 11.86                 | 98.40   | 43.21   | 31  | 7.86                    | 40.58   | 21.06   | 21  |
| 20                      | -0.01   | 0.00    | -0.00   | 31  | 12.32                 | 99.00   | 51.85   | 31  | 8.09                    | 48.87   | 21.95   | 21  |
| 21                      | -0.01   | 0.00    | -0.01   | 31  | 13.67                 | 99.00   | 56.35   | 31  | 9.56                    | 47.94   | 20.22   | 21  |
| 22                      | -0.01   | -0.00   | -0.01   | 31  | 14.56                 | 98.90   | 59.54   | 31  | 7.09                    | 46.34   | 19.08   | 21  |
| 23                      | -0.01   | -0.00   | -0.01   | 31  | 14.76                 | 99.20   | 62.64   | 31  | 7.43                    | 46.40   | 19.52   | 21  |
| 24                      | -0.01   | -0.00   | -0.01   | 31  | 15.24                 | 99.20   | 65.61   | 31  | 6.34                    | 45.70   | 16.73   | 21  |
|                         | -0.01   | 1.67    | 0.42    | 744 | 11.00                 | 99.20   | 54.68   | 744 | 2.70                    | 62.04   | 19.13   | 522 |



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WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: RMA(COMPOSITE)

Period: 6/ 1/91 thru 6/30/91

Month and year of record: JUNE, 91

| TEMPERATURE (DEG F) |         |         |         |     | PRESSURE (IN. HG) |         |         |     | PRECIPITATION (IN) |         |       |     |
|---------------------|---------|---------|---------|-----|-------------------|---------|---------|-----|--------------------|---------|-------|-----|
| HR                  | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM           | MAXIMUM | AVERAGE | OBS | MINIMUM            | MAXIMUM | TOTAL | OBS |
| 1                   | 51.37   | 76.10   | 61.45   | 30  | 24.60             | 24.86   | 24.72   | 23  | 0.00               | 0.00    | 0.00  | 30  |
| 2                   | 51.53   | 70.40   | 60.35   | 30  | 24.60             | 24.87   | 24.72   | 23  | 0.00               | 0.00    | 0.00  | 30  |
| 3                   | 50.44   | 68.56   | 59.32   | 30  | 24.59             | 24.87   | 24.72   | 23  | 0.00               | 0.01    | 0.01  | 30  |
| 4                   | 51.12   | 68.13   | 58.24   | 30  | 24.58             | 24.88   | 24.72   | 23  | 0.00               | 0.00    | 0.00  | 30  |
| 5                   | 51.13   | 63.15   | 57.44   | 30  | 24.59             | 24.89   | 24.73   | 23  | 0.00               | 0.00    | 0.00  | 30  |
| 6                   | 51.45   | 64.43   | 57.52   | 30  | 24.57             | 24.87   | 24.74   | 23  | 0.00               | 0.02    | 0.03  | 30  |
| 7                   | 51.72   | 68.41   | 60.10   | 30  | 24.57             | 24.88   | 24.74   | 23  | 0.00               | 0.00    | 0.00  | 30  |
| 8                   | 53.87   | 76.40   | 63.98   | 30  | 24.56             | 24.87   | 24.74   | 23  | 0.00               | 0.01    | 0.01  | 30  |
| 9                   | 55.13   | 83.10   | 67.43   | 30  | 24.55             | 24.87   | 24.73   | 23  | 0.00               | 0.00    | 0.00  | 30  |
| 10                  | 56.18   | 87.20   | 70.68   | 30  | 24.55             | 24.87   | 24.73   | 23  | 0.00               | 0.00    | 0.00  | 30  |
| 11                  | 59.15   | 90.30   | 73.33   | 30  | 24.55             | 24.86   | 24.71   | 22  | 0.00               | 0.13    | 0.13  | 30  |
| 12                  | 61.28   | 90.60   | 75.59   | 30  | 24.54             | 24.84   | 24.70   | 23  | 0.00               | 0.00    | 0.00  | 30  |
| 13                  | 62.68   | 94.40   | 77.56   | 30  | 24.52             | 24.82   | 24.69   | 22  | 0.00               | 0.00    | 0.00  | 30  |
| 14                  | 63.65   | 95.90   | 78.21   | 30  | 24.50             | 24.82   | 24.68   | 24  | 0.00               | 0.07    | 0.07  | 30  |
| 15                  | 63.05   | 95.90   | 77.52   | 30  | 24.49             | 24.81   | 24.67   | 23  | 0.00               | 0.03    | 0.03  | 30  |
| 16                  | 57.94   | 95.10   | 76.58   | 30  | 24.49             | 24.85   | 24.66   | 23  | 0.00               | 0.29    | 0.41  | 30  |
| 17                  | 56.11   | 93.50   | 75.29   | 30  | 24.49             | 24.81   | 24.66   | 24  | 0.00               | 0.41    | 0.62  | 30  |
| 18                  | 54.65   | 91.40   | 74.17   | 30  | 24.51             | 24.81   | 24.67   | 24  | 0.00               | 0.12    | 0.18  | 30  |
| 19                  | 54.88   | 88.80   | 72.10   | 30  | 24.53             | 24.82   | 24.67   | 24  | 0.00               | 0.05    | 0.06  | 30  |
| 20                  | 53.61   | 85.70   | 68.99   | 30  | 24.55             | 24.80   | 24.68   | 24  | 0.00               | 0.10    | 0.21  | 30  |
| 21                  | 52.31   | 85.20   | 66.98   | 30  | 24.57             | 24.81   | 24.70   | 24  | 0.00               | 0.39    | 0.58  | 30  |
| 22                  | 51.20   | 83.50   | 65.26   | 30  | 24.58             | 24.83   | 24.71   | 24  | 0.00               | 0.05    | 0.08  | 30  |
| 23                  | 50.40   | 81.20   | 64.04   | 30  | 24.59             | 24.84   | 24.72   | 24  | 0.00               | 0.98    | 1.02  | 30  |
| 24                  | 51.25   | 78.30   | 62.56   | 30  | 24.60             | 24.85   | 24.72   | 24  | 0.00               | 0.02    | 0.06  | 30  |
|                     | 50.40   | 95.90   | 67.69   | 720 | 24.49             | 24.89   | 24.71   | 559 | 0.00               | 0.98    | 3.50  | 720 |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: RMA(COMPOSITE)

Period: 6/ 1/91 thru 6/30/91

Month and year of record: JUNE, 91

| SOLAR RADIATION (LY/YR) |         |         |         |     | RELATIVE HUMIDITY (%) |         |         |     | PEAK WIND SPEED (M/SEC) |         |         |     |
|-------------------------|---------|---------|---------|-----|-----------------------|---------|---------|-----|-------------------------|---------|---------|-----|
| HR                      | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM               | MAXIMUM | AVERAGE | OBS | MINIMUM                 | MAXIMUM | AVERAGE | OBS |
| 1                       | -0.01   | -0.00   | -0.01   | 30  | 12.05                 | 96.30   | 62.58   | 25  | 5.91                    | 16.75   | 11.52   | 14  |
| 2                       | -0.01   | -0.00   | -0.01   | 30  | 13.09                 | 96.50   | 66.73   | 23  | 5.54                    | 17.20   | 10.83   | 13  |
| 3                       | -0.01   | -0.00   | -0.01   | 30  | 14.51                 | 96.60   | 68.91   | 23  | 5.79                    | 15.52   | 10.18   | 13  |
| 4                       | -0.01   | -0.00   | -0.01   | 30  | 14.01                 | 96.00   | 69.79   | 23  | 6.03                    | 16.77   | 10.94   | 13  |
| 5                       | -0.00   | 0.01    | 0.00    | 30  | 15.15                 | 96.00   | 70.58   | 23  | 5.19                    | 13.13   | 9.99    | 13  |
| 6                       | 0.01    | 0.22    | 0.13    | 30  | 16.94                 | 95.80   | 71.27   | 23  | 5.27                    | 19.73   | 10.57   | 13  |
| 7                       | 0.09    | 0.51    | 0.36    | 30  | 17.72                 | 96.60   | 71.61   | 21  | 5.32                    | 22.32   | 11.30   | 13  |
| 8                       | 0.17    | 0.79    | 0.63    | 30  | 14.68                 | 96.10   | 60.95   | 22  | 5.24                    | 16.49   | 9.80    | 13  |
| 9                       | 0.11    | 1.15    | 0.96    | 30  | 11.14                 | 94.30   | 50.34   | 25  | 6.02                    | 15.12   | 10.09   | 13  |
| 10                      | 0.16    | 1.38    | 1.19    | 30  | 9.64                  | 94.00   | 42.48   | 26  | 5.96                    | 14.65   | 11.21   | 13  |
| 11                      | 0.57    | 1.59    | 1.35    | 30  | 9.28                  | 93.10   | 37.70   | 26  | 9.62                    | 20.26   | 13.66   | 13  |
| 12                      | 0.57    | 1.65    | 1.41    | 30  | 9.22                  | 89.10   | 32.82   | 26  | 9.23                    | 18.73   | 12.91   | 13  |
| 13                      | 0.34    | 1.67    | 1.31    | 30  | 8.34                  | 83.20   | 28.61   | 26  | 6.11                    | 25.00   | 14.85   | 12  |
| 14                      | 0.06    | 1.55    | 1.01    | 30  | 8.07                  | 67.32   | 24.77   | 25  | 7.82                    | 30.88   | 17.89   | 12  |
| 15                      | 0.05    | 1.35    | 0.78    | 30  | 8.07                  | 63.91   | 26.67   | 24  | 10.83                   | 35.23   | 20.15   | 11  |
| 16                      | 0.01    | 1.10    | 0.65    | 30  | 8.09                  | 77.70   | 28.68   | 22  | 8.73                    | 37.46   | 21.73   | 11  |
| 17                      | 0.02    | 0.85    | 0.42    | 30  | 8.39                  | 83.50   | 31.53   | 24  | 9.66                    | 37.95   | 24.04   | 12  |
| 18                      | -0.01   | 0.44    | 0.29    | 30  | 8.88                  | 94.00   | 33.62   | 27  | 7.20                    | 36.93   | 20.26   | 14  |
| 19                      | 0.03    | 0.20    | 0.11    | 30  | 9.23                  | 88.90   | 35.73   | 27  | 4.44                    | 42.39   | 16.95   | 14  |
| 20                      | -0.01   | 0.03    | 0.00    | 30  | 10.17                 | 93.70   | 41.73   | 26  | 9.45                    | 40.35   | 17.12   | 14  |
| 21                      | -0.01   | -0.00   | -0.01   | 30  | 10.53                 | 96.60   | 45.08   | 25  | 9.29                    | 38.48   | 16.97   | 14  |
| 22                      | -0.01   | -0.00   | -0.01   | 30  | 10.83                 | 96.10   | 50.03   | 25  | 7.96                    | 38.69   | 15.28   | 14  |
| 23                      | -0.01   | 0.00    | -0.01   | 30  | 11.24                 | 96.80   | 54.63   | 24  | 7.22                    | 22.46   | 13.04   | 14  |
| 24                      | -0.01   | -0.00   | -0.01   | 30  | 11.56                 | 96.50   | 57.51   | 25  | 6.91                    | 17.70   | 12.69   | 14  |
|                         | -0.01   | 1.67    | 0.44    | 720 | 8.07                  | 96.80   | 48.51   | 586 | 4.44                    | 42.39   | 14.33   | 313 |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: RMA(COMPOSITE)

Period: 6/ 1/91 thru 6/30/91

Month and year of record: JUNE, 91

| TEMP DIFFERENCE (DEG F) |         |         |         |     | P-G STABILITY |         |         |     |
|-------------------------|---------|---------|---------|-----|---------------|---------|---------|-----|
| HR                      | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM       | MAXIMUM | AVERAGE | OBS |
| 1                       | 0.43    | 9.30    | 3.26    | 27  | 4.00          | 6.00    | 4.77    | 30  |
| 2                       | 0.36    | 7.96    | 3.36    | 26  | 4.00          | 6.00    | 5.10    | 30  |
| 3                       | 0.56    | 8.43    | 3.48    | 26  | 4.00          | 6.00    | 4.87    | 30  |
| 4                       | 0.46    | 11.01   | 4.02    | 26  | 4.00          | 6.00    | 5.03    | 30  |
| 5                       | 0.66    | 11.27   | 3.54    | 26  | 4.00          | 6.00    | 4.73    | 30  |
| 6                       | 0.09    | 4.08    | 1.56    | 26  | 4.00          | 6.00    | 4.70    | 30  |
| 7                       | -0.45   | 1.50    | 0.12    | 26  | 1.00          | 4.00    | 2.13    | 30  |
| 8                       | -1.05   | 0.39    | -0.39   | 26  | 1.00          | 4.00    | 2.20    | 30  |
| 9                       | -1.61   | 0.01    | -0.67   | 26  | 1.00          | 4.00    | 1.47    | 30  |
| 10                      | -1.96   | -0.01   | -0.79   | 26  | 1.00          | 4.00    | 1.43    | 30  |
| 11                      | -2.22   | 0.01    | -0.91   | 26  | 1.00          | 4.00    | 1.47    | 30  |
| 12                      | -1.98   | 4.95    | -0.63   | 26  | 1.00          | 4.00    | 1.43    | 30  |
| 13                      | -2.17   | -0.06   | -0.83   | 26  | 1.00          | 4.00    | 1.40    | 30  |
| 14                      | -1.88   | 0.78    | -0.63   | 25  | 1.00          | 4.00    | 2.03    | 30  |
| 15                      | -2.04   | 1.47    | -0.47   | 24  | 1.00          | 4.00    | 2.13    | 30  |
| 16                      | -1.96   | 1.40    | -0.32   | 23  | 1.00          | 4.00    | 2.50    | 30  |
| 17                      | -1.17   | 1.87    | 0.20    | 25  | 1.00          | 4.00    | 2.80    | 30  |
| 18                      | -0.70   | 2.06    | 0.44    | 27  | 1.00          | 4.00    | 2.90    | 30  |
| 19                      | -0.07   | 3.23    | 1.14    | 27  | 4.00          | 6.00    | 4.57    | 30  |
| 20                      | 0.14    | 5.40    | 2.25    | 27  | 4.00          | 6.00    | 4.37    | 30  |
| 21                      | 0.33    | 8.59    | 2.97    | 27  | 4.00          | 6.00    | 4.47    | 30  |
| 22                      | 0.41    | 6.68    | 2.78    | 27  | 4.00          | 6.00    | 4.67    | 30  |
| 23                      | 0.32    | 7.66    | 3.38    | 27  | 4.00          | 6.00    | 4.77    | 30  |
| 24                      | 0.66    | 9.05    | 3.70    | 27  | 4.00          | 6.00    | 4.70    | 30  |
|                         | -2.22   | 11.27   | 1.27    | 625 | 1.00          | 6.00    | 3.36    | 720 |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: RMA(COMPOSITE)

Period: 7/ 1/91 thru 7/31/91

Month and year of record: JULY, 91

| WIND SPEED (M/SEC) |         |         |         |     | WIND DIRECTION (DEG) |         |         |     | SIGMA THETA (DEG) |         |         |     |
|--------------------|---------|---------|---------|-----|----------------------|---------|---------|-----|-------------------|---------|---------|-----|
| HR                 | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM              | MAXIMUM | AVERAGE | OBS | MINIMUM           | MAXIMUM | AVERAGE | OBS |
| 1                  | 2.32    | 15.45   | 7.53    | 31  | 24.66                | 340.70  | 184.81  | 31  | 2.66              | 41.94   | 14.38   | 31  |
| 2                  | 1.62    | 14.99   | 7.67    | 31  | 132.30               | 347.70  | 191.18  | 31  | 2.54              | 68.24   | 12.27   | 31  |
| 3                  | 1.88    | 13.78   | 7.02    | 31  | 18.20                | 335.70  | 189.58  | 31  | 2.53              | 39.68   | 11.98   | 31  |
| 4                  | 1.32    | 15.06   | 6.80    | 31  | 12.29                | 325.30  | 198.52  | 31  | 3.33              | 58.75   | 15.67   | 31  |
| 5                  | 2.03    | 14.90   | 6.68    | 31  | 35.64                | 316.80  | 200.65  | 31  | 2.88              | 58.92   | 16.54   | 31  |
| 6                  | 2.73    | 10.92   | 6.06    | 31  | 34.46                | 350.30  | 213.37  | 31  | 3.56              | 38.13   | 14.45   | 31  |
| 7                  | 2.60    | 10.61   | 5.72    | 31  | 28.08                | 323.00  | 211.64  | 31  | 4.76              | 38.55   | 14.37   | 31  |
| 8                  | 2.47    | 11.77   | 5.85    | 31  | 37.40                | 349.10  | 226.73  | 31  | 5.97              | 62.53   | 21.16   | 31  |
| 9                  | 2.24    | 23.74   | 5.79    | 31  | 0.21                 | 355.80  | 212.64  | 31  | 6.98              | 71.70   | 29.03   | 31  |
| 10                 | 2.60    | 20.16   | 5.84    | 31  | 1.73                 | 337.50  | 121.55  | 31  | 9.87              | 75.60   | 33.89   | 31  |
| 11                 | 2.97    | 16.41   | 6.56    | 31  | 5.88                 | 359.90  | 45.75   | 31  | 10.44             | 77.20   | 33.71   | 31  |
| 12                 | 3.92    | 15.30   | 7.56    | 31  | 7.34                 | 339.20  | 52.81   | 31  | 12.45             | 59.85   | 29.61   | 31  |
| 13                 | 3.72    | 13.19   | 8.27    | 31  | 8.43                 | 356.50  | 40.38   | 31  | 12.22             | 70.90   | 29.79   | 31  |
| 14                 | 4.52    | 20.38   | 9.38    | 31  | 2.03                 | 354.40  | 43.00   | 31  | 10.88             | 54.15   | 30.12   | 31  |
| 15                 | 4.27    | 26.27   | 10.06   | 31  | 9.64                 | 356.10  | 21.75   | 31  | 10.04             | 61.69   | 31.11   | 31  |
| 16                 | 5.09    | 20.61   | 10.93   | 31  | 0.47                 | 353.40  | 22.82   | 31  | 7.19              | 57.15   | 25.87   | 31  |
| 17                 | 5.84    | 22.66   | 10.53   | 31  | 0.03                 | 356.40  | 35.29   | 31  | 7.83              | 32.68   | 19.63   | 31  |
| 18                 | 3.56    | 24.30   | 10.07   | 31  | 8.62                 | 340.20  | 73.18   | 31  | 5.48              | 69.10   | 21.10   | 31  |
| 19                 | 1.57    | 19.89   | 9.33    | 31  | 3.51                 | 349.10  | 45.14   | 31  | 3.55              | 72.60   | 16.75   | 31  |
| 20                 | 3.40    | 14.19   | 7.92    | 31  | 4.59                 | 357.40  | 100.56  | 31  | 4.03              | 68.25   | 21.45   | 31  |
| 21                 | 1.79    | 13.34   | 7.28    | 31  | 3.62                 | 348.10  | 161.98  | 31  | 5.94              | 60.82   | 22.09   | 31  |
| 22                 | 2.66    | 19.40   | 8.70    | 31  | 7.99                 | 329.90  | 180.23  | 31  | 3.91              | 46.33   | 15.34   | 31  |
| 23                 | 3.51    | 17.14   | 8.73    | 31  | 80.00                | 332.20  | 196.05  | 31  | 2.58              | 57.88   | 17.91   | 31  |
| 24                 | 2.45    | 15.85   | 8.33    | 31  | 5.02                 | 330.90  | 197.53  | 31  | 2.70              | 65.69   | 16.81   | 31  |
|                    | 1.32    | 26.27   | 7.86    | 744 | 0.03                 | 359.90  | 177.43  | 744 | 2.53              | 77.20   | 21.46   | 744 |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: RMA(COMPOSITE)

Period: 7/ 1/91 thru 7/31/91

Month and year of record: JULY, 91

| TEMPERATURE (DEG F) |         |         |         |     | PRESSURE (IN. HG) |         |         |     | PRECIPITATION (IN) |         |       |     |
|---------------------|---------|---------|---------|-----|-------------------|---------|---------|-----|--------------------|---------|-------|-----|
| HR                  | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM           | MAXIMUM | AVERAGE | OBS | MINIMUM            | MAXIMUM | TOTAL | OBS |
| 1                   | 56.11   | 72.30   | 65.09   | 31  | 24.75             | 25.06   | 24.87   | 26  | 0.00               | 0.04    | 0.04  | 31  |
| 2                   | 55.62   | 70.50   | 63.76   | 31  | 24.75             | 25.05   | 24.86   | 26  | 0.00               | 0.05    | 0.05  | 31  |
| 3                   | 55.05   | 69.15   | 62.49   | 31  | 24.75             | 25.05   | 24.86   | 26  | 0.00               | 0.01    | 0.01  | 31  |
| 4                   | 55.60   | 68.17   | 61.80   | 31  | 24.74             | 25.05   | 24.86   | 26  | 0.00               | 0.03    | 0.03  | 31  |
| 5                   | 54.98   | 67.80   | 61.08   | 31  | 24.74             | 25.05   | 24.86   | 26  | 0.00               | 0.01    | 0.01  | 31  |
| 6                   | 54.95   | 70.20   | 61.49   | 31  | 24.74             | 25.05   | 24.86   | 26  | 0.00               | 0.03    | 0.03  | 31  |
| 7                   | 54.93   | 72.50   | 63.99   | 31  | 24.74             | 25.06   | 24.87   | 26  | 0.00               | 0.01    | 0.01  | 31  |
| 8                   | 55.31   | 77.50   | 67.85   | 31  | 24.74             | 25.07   | 24.87   | 26  | 0.00               | 0.00    | 0.00  | 31  |
| 9                   | 56.29   | 82.60   | 71.66   | 31  | 24.74             | 25.07   | 24.87   | 26  | 0.00               | 0.00    | 0.00  | 31  |
| 10                  | 55.28   | 88.60   | 74.95   | 31  | 24.74             | 25.08   | 24.87   | 26  | 0.00               | 0.00    | 0.00  | 31  |
| 11                  | 55.55   | 90.40   | 77.31   | 31  | 24.73             | 25.08   | 24.87   | 26  | 0.00               | 0.00    | 0.00  | 31  |
| 12                  | 57.26   | 93.00   | 79.42   | 31  | 24.73             | 25.09   | 24.86   | 27  | 0.00               | 0.00    | 0.00  | 30  |
| 13                  | 58.62   | 92.10   | 80.78   | 31  | 24.72             | 25.07   | 24.85   | 27  | 0.00               | 0.05    | 0.05  | 31  |
| 14                  | 59.25   | 92.60   | 81.36   | 31  | 24.71             | 25.06   | 24.84   | 27  | 0.00               | 0.02    | 0.02  | 31  |
| 15                  | 57.40   | 92.70   | 80.34   | 31  | 24.72             | 25.03   | 24.84   | 26  | 0.00               | 1.25    | 2.28  | 31  |
| 16                  | 60.00   | 92.40   | 79.00   | 31  | 24.72             | 25.03   | 24.84   | 27  | 0.00               | 0.68    | 0.73  | 31  |
| 17                  | 59.27   | 91.90   | 78.33   | 31  | 24.71             | 25.03   | 24.84   | 27  | 0.00               | 0.10    | 0.14  | 31  |
| 18                  | 58.52   | 91.20   | 76.87   | 31  | 24.71             | 25.02   | 24.83   | 26  | 0.00               | 0.10    | 0.25  | 31  |
| 19                  | 57.85   | 88.90   | 74.06   | 31  | 24.71             | 25.04   | 24.84   | 26  | 0.00               | 0.13    | 0.27  | 31  |
| 20                  | 58.13   | 85.00   | 72.01   | 31  | 24.72             | 25.05   | 24.85   | 26  | 0.00               | 0.08    | 0.19  | 31  |
| 21                  | 56.68   | 82.30   | 70.25   | 31  | 24.73             | 25.07   | 24.86   | 26  | 0.00               | 0.06    | 0.06  | 31  |
| 22                  | 56.29   | 77.40   | 68.88   | 31  | 24.74             | 25.07   | 24.87   | 26  | 0.00               | 0.03    | 0.05  | 31  |
| 23                  | 55.93   | 76.60   | 67.55   | 31  | 24.74             | 25.07   | 24.87   | 26  | 0.00               | 0.00    | 0.00  | 31  |
| 24                  | 55.90   | 75.00   | 66.49   | 31  | 24.75             | 25.07   | 24.87   | 26  | 0.00               | 0.00    | 0.00  | 31  |
|                     | 54.93   | 93.00   | 71.12   | 744 | 24.71             | 25.09   | 24.86   | 629 | 0.00               | 1.25    | 4.22  | 743 |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: RMA(COMPOSITE)

Period: 7/ 1/91 thru 7/31/91

Month and year of record: JULY, 91

| SOLAR RADIATION (LY/YR) |         |         |         |     | RELATIVE HUMIDITY (%) |         |         |     | PEAK WIND SPEED (M/SEC) |         |         |     |
|-------------------------|---------|---------|---------|-----|-----------------------|---------|---------|-----|-------------------------|---------|---------|-----|
| HR                      | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM               | MAXIMUM | AVERAGE | OBS | MINIMUM                 | MAXIMUM | AVERAGE | OBS |
| 1                       | -0.01   | -0.00   | -0.01   | 31  | 14.33                 | 97.10   | 56.21   | 24  | 0.49                    | 23.15   | 11.14   | 24  |
| 2                       | -0.01   | -0.00   | -0.01   | 31  | 20.66                 | 96.90   | 58.82   | 24  | 0.50                    | 23.12   | 10.79   | 24  |
| 3                       | -0.01   | -0.00   | -0.01   | 31  | 20.07                 | 97.10   | 61.22   | 24  | 3.46                    | 17.90   | 10.24   | 24  |
| 4                       | -0.01   | -0.00   | -0.01   | 31  | 20.65                 | 97.10   | 62.93   | 24  | 4.09                    | 15.43   | 10.01   | 24  |
| 5                       | -0.01   | 0.01    | -0.00   | 31  | 20.47                 | 97.30   | 64.52   | 24  | 5.04                    | 15.65   | 9.90    | 24  |
| 6                       | 0.01    | 0.17    | 0.10    | 31  | 19.60                 | 97.40   | 65.09   | 24  | 3.77                    | 14.25   | 8.96    | 24  |
| 7                       | 0.05    | 0.46    | 0.34    | 31  | 17.84                 | 97.40   | 63.32   | 24  | 0.49                    | 15.59   | 9.49    | 24  |
| 8                       | 0.15    | 0.75    | 0.60    | 31  | 14.89                 | 96.50   | 56.12   | 24  | 5.36                    | 48.24   | 12.35   | 24  |
| 9                       | 0.23    | 1.09    | 0.88    | 31  | 12.85                 | 94.20   | 48.31   | 24  | 5.10                    | 32.11   | 11.32   | 23  |
| 10                      | 0.13    | 1.35    | 1.15    | 31  | 10.19                 | 96.60   | 42.51   | 24  | 5.43                    | 28.68   | 12.03   | 23  |
| 11                      | 0.18    | 1.52    | 1.35    | 31  | 9.53                  | 988.00  | 75.32   | 25  | 7.63                    | 988.00  | 90.25   | 26  |
| 12                      | 0.45    | 1.63    | 1.40    | 31  | 8.72                  | 94.80   | 34.34   | 23  | 9.74                    | 26.65   | 16.01   | 23  |
| 13                      | 0.24    | 1.64    | 1.25    | 31  | 8.98                  | 91.80   | 30.93   | 24  | 11.73                   | 41.84   | 18.18   | 24  |
| 14                      | 0.22    | 1.55    | 1.13    | 31  | 8.89                  | 90.80   | 30.00   | 24  | 10.50                   | 37.02   | 19.27   | 24  |
| 15                      | 0.02    | 1.38    | 0.86    | 31  | 8.83                  | 88.60   | 32.38   | 24  | 11.46                   | 47.42   | 19.96   | 24  |
| 16                      | 0.01    | 1.11    | 0.66    | 31  | 8.96                  | 92.90   | 34.55   | 23  | 9.10                    | 34.09   | 20.51   | 24  |
| 17                      | 0.02    | 0.79    | 0.47    | 31  | 9.10                  | 94.10   | 34.24   | 24  | 9.13                    | 33.35   | 18.86   | 25  |
| 18                      | 0.01    | 0.46    | 0.24    | 31  | 9.24                  | 93.70   | 35.92   | 24  | 8.56                    | 32.48   | 17.39   | 25  |
| 19                      | 0.00    | 0.19    | 0.08    | 31  | 9.75                  | 96.60   | 41.18   | 24  | 6.11                    | 32.91   | 15.86   | 25  |
| 20                      | -0.01   | 0.01    | -0.00   | 31  | 10.33                 | 97.80   | 44.60   | 24  | 6.64                    | 22.69   | 13.65   | 25  |
| 21                      | -0.01   | -0.00   | -0.01   | 31  | 10.92                 | 97.00   | 47.26   | 24  | 5.51                    | 24.78   | 12.29   | 25  |
| 22                      | -0.01   | -0.00   | -0.01   | 31  | 11.92                 | 97.40   | 49.27   | 24  | 6.00                    | 31.10   | 13.92   | 25  |
| 23                      | -0.01   | -0.00   | -0.01   | 31  | 14.06                 | 98.30   | 52.14   | 24  | 6.16                    | 27.96   | 13.33   | 25  |
| 24                      | -0.01   | -0.00   | -0.01   | 31  | 15.19                 | 97.70   | 54.01   | 24  | 0.49                    | 23.85   | 11.67   | 25  |
|                         | -0.01   | 1.64    | 0.44    | 744 | 8.72                  | 988.00  | 48.97   | 575 | 0.49                    | 988.00  | 16.97   | 583 |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: RMA(COMPOSITE)

Period: 7/ 1/91 thru 7/31/91

Month and year of record: JULY, 91

| TEMP DIFFERENCE (DEG F) |         |         |         |     | P-G STABILITY |         |         |     |
|-------------------------|---------|---------|---------|-----|---------------|---------|---------|-----|
| HR                      | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM       | MAXIMUM | AVERAGE | OBS |
| 1                       | 0.16    | 6.66    | 2.83    | 31  | 4.00          | 6.00    | 4.61    | 31  |
| 2                       | 0.11    | 6.78    | 3.02    | 31  | 4.00          | 6.00    | 4.52    | 31  |
| 3                       | 0.12    | 8.32    | 3.24    | 31  | 4.00          | 6.00    | 4.55    | 31  |
| 4                       | 0.10    | 6.57    | 3.14    | 31  | 4.00          | 6.00    | 4.74    | 31  |
| 5                       | 0.12    | 5.60    | 3.03    | 31  | 4.00          | 6.00    | 4.71    | 31  |
| 6                       | -0.01   | 4.06    | 1.84    | 31  | 4.00          | 6.00    | 4.71    | 31  |
| 7                       | -0.56   | 1.15    | 0.05    | 31  | 1.00          | 4.00    | 3.10    | 31  |
| 8                       | -0.83   | 0.47    | -0.35   | 31  | 1.00          | 4.00    | 2.65    | 31  |
| 9                       | -0.98   | 0.05    | -0.58   | 30  | 1.00          | 4.00    | 1.87    | 31  |
| 10                      | -8.95   | -0.09   | -1.12   | 30  | 1.00          | 4.00    | 1.68    | 31  |
| 11                      | -2.21   | 988.00  | 33.02   | 30  | 1.00          | 4.00    | 1.45    | 31  |
| 12                      | -2.02   | 0.10    | -1.04   | 28  | 1.00          | 4.00    | 1.68    | 31  |
| 13                      | -1.77   | 0.51    | -1.02   | 29  | 1.00          | 4.00    | 1.55    | 31  |
| 14                      | -1.79   | 0.40    | -0.92   | 29  | 1.00          | 4.00    | 1.71    | 31  |
| 15                      | -1.84   | 0.75    | -0.73   | 29  | 1.00          | 4.00    | 1.87    | 31  |
| 16                      | -1.51   | 1.00    | -0.44   | 30  | 1.00          | 4.00    | 2.26    | 31  |
| 17                      | -1.13   | 2.33    | -0.24   | 31  | 1.00          | 4.00    | 2.48    | 31  |
| 18                      | -0.72   | 4.09    | 0.26    | 31  | 1.00          | 4.00    | 2.81    | 31  |
| 19                      | 0.01    | 2.90    | 0.89    | 31  | 4.00          | 6.00    | 4.32    | 31  |
| 20                      | 0.25    | 6.82    | 2.01    | 31  | 4.00          | 6.00    | 4.68    | 31  |
| 21                      | 0.20    | 10.21   | 2.88    | 31  | 4.00          | 6.00    | 4.77    | 31  |
| 22                      | 0.14    | 9.13    | 2.90    | 31  | 4.00          | 6.00    | 4.48    | 31  |
| 23                      | 0.21    | 6.57    | 2.31    | 31  | 4.00          | 6.00    | 4.68    | 31  |
| 24                      | 0.17    | 5.26    | 2.47    | 31  | 4.00          | 6.00    | 4.52    | 31  |
|                         | -8.95   | 988.00  | 2.39    | 731 | 1.00          | 6.00    | 3.35    | 744 |



WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: RMA(COMPOSITE)

Period: 8/ 1/91 thru 8/31/91

Month and year of record: AUGUST, 91

| WIND SPEED (M/SEC) |         |         |         |     | WIND DIRECTION (DEG) |         |         |     | SIGMA THETA (DEG) |         |         |     |
|--------------------|---------|---------|---------|-----|----------------------|---------|---------|-----|-------------------|---------|---------|-----|
| HR                 | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM              | MAXIMUM | AVERAGE | OBS | MINIMUM           | MAXIMUM | AVERAGE | OBS |
| 1                  | 1.86    | 12.49   | 7.74    | 31  | 164.70               | 337.50  | 200.16  | 31  | 2.40              | 52.49   | 12.18   | 31  |
| 2                  | 2.80    | 13.54   | 7.31    | 31  | 2.98                 | 306.10  | 200.82  | 31  | 3.04              | 50.08   | 16.81   | 31  |
| 3                  | 2.67    | 14.44   | 7.08    | 31  | 9.86                 | 301.60  | 195.28  | 31  | 3.10              | 41.85   | 13.72   | 31  |
| 4                  | 3.13    | 11.16   | 7.09    | 31  | 107.20               | 337.30  | 205.42  | 31  | 3.94              | 43.62   | 11.90   | 31  |
| 5                  | 3.93    | 11.08   | 6.93    | 31  | 29.93                | 345.50  | 208.77  | 31  | 3.39              | 32.49   | 10.16   | 31  |
| 6                  | 1.44    | 12.51   | 6.16    | 31  | 126.70               | 358.20  | 208.73  | 31  | 3.70              | 56.51   | 13.90   | 31  |
| 7                  | 2.34    | 9.54    | 5.47    | 31  | 62.99                | 349.30  | 211.16  | 31  | 5.28              | 52.78   | 14.72   | 31  |
| 8                  | 2.71    | 10.23   | 5.77    | 31  | 71.10                | 354.40  | 231.26  | 31  | 6.81              | 70.80   | 19.63   | 31  |
| 9                  | 2.11    | 11.25   | 4.78    | 31  | 8.51                 | 354.80  | 279.12  | 31  | 5.67              | 73.50   | 27.23   | 31  |
| 10                 | 2.18    | 11.74   | 4.90    | 31  | 2.71                 | 357.00  | 26.42   | 31  | 7.43              | 77.40   | 33.75   | 31  |
| 11                 | 2.67    | 12.38   | 5.65    | 31  | 1.03                 | 345.80  | 47.58   | 31  | 11.00             | 62.54   | 29.98   | 31  |
| 12                 | 2.79    | 12.02   | 6.01    | 31  | 3.65                 | 342.50  | 51.15   | 31  | 14.50             | 71.20   | 34.60   | 31  |
| 13                 | 3.73    | 13.75   | 6.78    | 31  | 8.99                 | 347.60  | 53.95   | 31  | 6.72              | 54.04   | 31.37   | 31  |
| 14                 | 3.03    | 15.67   | 7.18    | 31  | 6.27                 | 353.00  | 52.40   | 31  | 11.70             | 68.69   | 30.28   | 31  |
| 15                 | 4.19    | 14.95   | 7.15    | 31  | 2.39                 | 358.80  | 27.81   | 31  | 10.38             | 60.51   | 32.06   | 31  |
| 16                 | 2.46    | 17.21   | 7.94    | 31  | 1.66                 | 352.60  | 4.43    | 31  | 9.89              | 66.34   | 27.67   | 31  |
| 17                 | 1.91    | 17.87   | 9.11    | 31  | 4.63                 | 358.70  | 348.77  | 31  | 6.63              | 65.75   | 21.55   | 31  |
| 18                 | 1.07    | 14.95   | 7.93    | 31  | 7.69                 | 351.80  | 312.28  | 31  | 4.45              | 72.20   | 23.09   | 31  |
| 19                 | 3.72    | 16.64   | 8.59    | 31  | 2.94                 | 323.40  | 151.17  | 31  | 2.62              | 59.94   | 18.16   | 31  |
| 20                 | 1.79    | 15.92   | 7.88    | 31  | 28.99                | 353.20  | 184.52  | 31  | 3.94              | 55.69   | 20.78   | 31  |
| 21                 | 2.34    | 15.44   | 8.39    | 31  | 5.42                 | 330.90  | 175.85  | 31  | 3.88              | 63.39   | 18.70   | 31  |
| 22                 | 3.06    | 15.28   | 8.52    | 31  | 0.60                 | 241.80  | 188.12  | 31  | 3.52              | 68.87   | 16.96   | 31  |
| 23                 | 2.88    | 16.27   | 8.38    | 31  | 63.57                | 338.60  | 191.28  | 31  | 2.57              | 74.40   | 15.75   | 31  |
| 24                 | 2.61    | 17.48   | 7.92    | 31  | 92.60                | 345.00  | 195.44  | 31  | 3.19              | 63.56   | 14.51   | 31  |
|                    | 1.07    | 17.87   | 7.11    | 744 | 0.60                 | 358.80  | 194.44  | 744 | 2.40              | 77.40   | 21.23   | 744 |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: RMA(COMPOSITE)

Period: 8/ 1/91 thru 8/31/91

Month and year of record: AUGUST, 91

| TEMPERATURE (DEG F) |         |         |         |     | PRESSURE (IN. HG) |         |         |     | PRECIPITATION (IN) |         |       |     |
|---------------------|---------|---------|---------|-----|-------------------|---------|---------|-----|--------------------|---------|-------|-----|
| HR                  | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM           | MAXIMUM | AVERAGE | OBS | MINIMUM            | MAXIMUM | TOTAL | OBS |
| 1                   | 58.34   | 72.70   | 63.92   | 31  | 24.80             | 25.02   | 24.90   | 30  | 0.00               | 0.00    | 0.00  | 31  |
| 2                   | 58.02   | 71.10   | 62.85   | 31  | 24.79             | 25.03   | 24.89   | 30  | 0.00               | 0.05    | 0.05  | 31  |
| 3                   | 57.78   | 69.97   | 62.05   | 31  | 24.79             | 25.03   | 24.89   | 30  | 0.00               | 0.01    | 0.01  | 31  |
| 4                   | 56.53   | 68.91   | 61.20   | 31  | 24.79             | 25.03   | 24.89   | 30  | 0.00               | 0.00    | 0.00  | 31  |
| 5                   | 56.56   | 67.98   | 60.36   | 31  | 24.79             | 25.03   | 24.89   | 30  | 0.00               | 0.00    | 0.00  | 31  |
| 6                   | 56.04   | 67.42   | 60.14   | 31  | 24.79             | 25.03   | 24.89   | 30  | 0.00               | 0.13    | 0.13  | 31  |
| 7                   | 55.74   | 68.43   | 61.58   | 31  | 24.79             | 25.04   | 24.90   | 30  | 0.00               | 0.25    | 0.25  | 31  |
| 8                   | 58.46   | 74.00   | 65.63   | 31  | 24.79             | 25.04   | 24.90   | 30  | 0.00               | 1.05    | 1.05  | 31  |
| 9                   | 58.61   | 78.90   | 69.94   | 31  | 24.78             | 25.04   | 24.90   | 30  | 0.00               | 0.18    | 0.18  | 31  |
| 10                  | 58.69   | 83.00   | 73.23   | 31  | 24.78             | 25.04   | 24.90   | 30  | 0.00               | 0.04    | 0.04  | 31  |
| 11                  | 58.93   | 86.40   | 75.60   | 31  | 24.77             | 25.03   | 24.90   | 30  | 0.00               | 0.01    | 0.01  | 31  |
| 12                  | 57.86   | 87.70   | 77.71   | 31  | 24.75             | 25.03   | 24.89   | 30  | 0.00               | 0.02    | 0.02  | 31  |
| 13                  | 56.50   | 89.00   | 79.34   | 31  | 24.74             | 25.01   | 24.88   | 30  | 0.00               | 0.01    | 0.01  | 31  |
| 14                  | 56.28   | 89.50   | 80.17   | 31  | 24.72             | 25.01   | 24.87   | 30  | 0.00               | 0.01    | 0.01  | 31  |
| 15                  | 56.93   | 90.10   | 80.03   | 31  | 24.70             | 25.00   | 24.86   | 31  | 0.00               | 0.29    | 0.29  | 31  |
| 16                  | 57.69   | 89.80   | 78.57   | 31  | 24.69             | 24.98   | 24.85   | 31  | 0.00               | 0.04    | 0.05  | 31  |
| 17                  | 58.97   | 87.50   | 76.88   | 31  | 24.69             | 24.97   | 24.85   | 31  | 0.00               | 0.01    | 0.01  | 31  |
| 18                  | 59.62   | 83.50   | 75.02   | 31  | 24.69             | 24.97   | 24.86   | 31  | 0.00               | 1.17    | 1.18  | 31  |
| 19                  | 59.45   | 79.70   | 72.52   | 31  | 24.71             | 24.97   | 24.86   | 31  | 0.00               | 0.55    | 1.04  | 31  |
| 20                  | 59.13   | 79.00   | 70.27   | 31  | 24.72             | 24.98   | 24.87   | 31  | 0.00               | 0.56    | 0.65  | 31  |
| 21                  | 59.30   | 77.20   | 68.29   | 31  | 24.72             | 25.00   | 24.89   | 31  | 0.00               | 0.02    | 0.02  | 31  |
| 22                  | 59.14   | 76.10   | 66.85   | 31  | 24.73             | 25.02   | 24.89   | 31  | 0.00               | 0.00    | 0.00  | 31  |
| 23                  | 58.91   | 73.10   | 65.82   | 31  | 24.72             | 25.02   | 24.89   | 31  | 0.00               | 0.01    | 0.01  | 31  |
| 24                  | 58.13   | 71.30   | 64.43   | 31  | 24.72             | 25.02   | 24.89   | 31  | 0.00               | 0.00    | 0.00  | 31  |
|                     | 55.74   | 90.10   | 69.68   | 744 | 24.69             | 25.04   | 24.88   | 730 | 0.00               | 1.17    | 5.01  | 744 |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: RMA(COMPOSITE)

Period: 8/ 1/91 thru 8/31/91

Month and year of record: AUGUST, 91

| SOLAR RADIATION (LY/YR) |         |         |         |     | RELATIVE HUMIDITY (%) |         |         |     | PEAK WIND SPEED (M/SEC) |         |         |     |
|-------------------------|---------|---------|---------|-----|-----------------------|---------|---------|-----|-------------------------|---------|---------|-----|
| HR                      | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM               | MAXIMUM | AVERAGE | OBS | MINIMUM                 | MAXIMUM | AVERAGE | OBS |
| 1                       | -0.01   | -0.00   | -0.01   | 31  | 35.38                 | 99.00   | 67.59   | 31  | 6.00                    | 17.43   | 11.59   | 22  |
| 2                       | -0.01   | -0.00   | -0.01   | 31  | 37.41                 | 99.20   | 69.38   | 31  | 5.23                    | 18.72   | 11.34   | 22  |
| 3                       | -0.01   | 0.00    | -0.01   | 31  | 38.10                 | 99.20   | 70.59   | 31  | 5.77                    | 18.55   | 11.25   | 22  |
| 4                       | -0.01   | 0.00    | -0.01   | 31  | 42.19                 | 99.20   | 72.36   | 31  | 6.03                    | 14.66   | 10.41   | 22  |
| 5                       | -0.01   | 0.00    | -0.01   | 31  | 43.56                 | 99.30   | 73.77   | 31  | 5.50                    | 15.09   | 10.33   | 22  |
| 6                       | 0.01    | 0.06    | 0.03    | 31  | 44.84                 | 99.20   | 74.01   | 31  | 3.23                    | 15.55   | 9.52    | 22  |
| 7                       | 0.02    | 0.34    | 0.21    | 31  | 45.40                 | 98.90   | 73.96   | 31  | 3.50                    | 13.22   | 9.24    | 22  |
| 8                       | 0.02    | 0.64    | 0.50    | 31  | 40.12                 | 98.70   | 67.13   | 31  | 6.37                    | 44.62   | 11.73   | 22  |
| 9                       | 0.05    | 0.98    | 0.80    | 31  | 34.11                 | 98.40   | 59.37   | 31  | 5.01                    | 20.23   | 9.51    | 22  |
| 10                      | 0.26    | 1.27    | 1.01    | 31  | 25.48                 | 98.10   | 53.16   | 31  | 6.24                    | 17.92   | 10.28   | 22  |
| 11                      | 0.26    | 1.41    | 1.20    | 31  | 18.52                 | 97.00   | 48.15   | 31  | 6.97                    | 17.23   | 11.59   | 21  |
| 12                      | 0.11    | 1.53    | 1.31    | 31  | 14.57                 | 96.80   | 43.45   | 31  | 7.89                    | 19.80   | 12.67   | 22  |
| 13                      | 0.14    | 1.53    | 1.21    | 31  | 12.29                 | 97.40   | 39.18   | 31  | 9.74                    | 23.33   | 14.45   | 22  |
| 14                      | 0.17    | 1.47    | 1.06    | 31  | 12.59                 | 97.30   | 36.22   | 31  | 10.37                   | 43.28   | 17.29   | 21  |
| 15                      | 0.04    | 1.27    | 0.79    | 31  | 13.04                 | 96.90   | 35.10   | 31  | 10.06                   | 29.58   | 16.18   | 22  |
| 16                      | 0.02    | 0.90    | 0.50    | 31  | 12.04                 | 96.20   | 37.14   | 31  | 8.20                    | 30.63   | 16.69   | 22  |
| 17                      | 0.03    | 0.67    | 0.31    | 31  | 13.48                 | 95.10   | 40.81   | 31  | 7.00                    | 32.09   | 17.41   | 22  |
| 18                      | 0.01    | 0.43    | 0.15    | 31  | 15.96                 | 94.20   | 43.77   | 31  | 7.13                    | 25.79   | 15.45   | 21  |
| 19                      | -0.00   | 0.11    | 0.03    | 31  | 23.99                 | 99.30   | 48.51   | 31  | 6.30                    | 50.61   | 16.41   | 22  |
| 20                      | -0.01   | 0.00    | -0.01   | 31  | 24.20                 | 99.70   | 52.07   | 31  | 4.04                    | 36.51   | 13.41   | 22  |
| 21                      | -0.01   | 0.00    | -0.01   | 31  | 25.00                 | 99.80   | 56.85   | 31  | 4.37                    | 24.67   | 11.74   | 21  |
| 22                      | -0.01   | -0.00   | -0.01   | 31  | 28.39                 | 98.90   | 61.58   | 31  | 6.44                    | 20.15   | 12.02   | 21  |
| 23                      | -0.01   | -0.00   | -0.01   | 31  | 32.71                 | 96.80   | 63.58   | 31  | 5.07                    | 15.10   | 10.96   | 21  |
| 24                      | -0.01   | -0.00   | -0.01   | 31  | 35.29                 | 98.40   | 66.21   | 31  | 5.86                    | 15.90   | 10.96   | 21  |
|                         | -0.01   | 1.53    | 0.38    | 744 | 12.04                 | 99.80   | 56.41   | 744 | 3.23                    | 50.61   | 12.60   | 521 |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: RMA(COMPOSITE)

Period: 8/ 1/91 thru 8/31/91

Month and year of record: AUGUST, 91

| TEMP DIFFERENCE (DEG F) |         |         |         |     | P-G STABILITY |         |         |     |
|-------------------------|---------|---------|---------|-----|---------------|---------|---------|-----|
| HR                      | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM       | MAXIMUM | AVERAGE | OBS |
| 1                       | 0.09    | 6.78    | 2.49    | 31  | 4.00          | 6.00    | 4.68    | 31  |
| 2                       | 0.10    | 8.31    | 2.86    | 31  | 4.00          | 6.00    | 4.81    | 31  |
| 3                       | 0.05    | 6.25    | 3.12    | 31  | 4.00          | 6.00    | 4.39    | 31  |
| 4                       | 0.07    | 6.24    | 3.11    | 31  | 4.00          | 6.00    | 4.65    | 31  |
| 5                       | 0.07    | 5.41    | 3.13    | 31  | 4.00          | 6.00    | 4.77    | 31  |
| 6                       | 0.10    | 4.98    | 2.69    | 31  | 4.00          | 6.00    | 4.81    | 31  |
| 7                       | -0.29   | 1.72    | 0.51    | 31  | 1.00          | 5.00    | 3.26    | 31  |
| 8                       | -0.56   | 0.16    | -0.20   | 30  | 1.00          | 4.00    | 2.65    | 31  |
| 9                       | -0.95   | 0.06    | -0.54   | 31  | 1.00          | 4.00    | 1.84    | 31  |
| 10                      | -1.22   | 0.07    | -0.64   | 31  | 1.00          | 4.00    | 1.48    | 31  |
| 11                      | -1.30   | 0.02    | -0.72   | 31  | 1.00          | 4.00    | 1.48    | 31  |
| 12                      | -1.46   | 0.19    | -0.74   | 31  | 1.00          | 3.00    | 1.26    | 31  |
| 13                      | -1.34   | 0.11    | -0.71   | 31  | 1.00          | 4.00    | 1.52    | 31  |
| 14                      | -1.19   | 0.32    | -0.55   | 31  | 1.00          | 4.00    | 1.52    | 31  |
| 15                      | -1.00   | 2.89    | -0.24   | 31  | 1.00          | 4.00    | 1.61    | 31  |
| 16                      | -0.80   | 2.14    | 0.10    | 31  | 1.00          | 4.00    | 2.06    | 31  |
| 17                      | -0.45   | 1.64    | 0.45    | 31  | 1.00          | 4.00    | 2.71    | 31  |
| 18                      | -0.00   | 3.25    | 0.89    | 31  | 1.00          | 4.00    | 2.55    | 31  |
| 19                      | 0.09    | 4.33    | 1.66    | 31  | 4.00          | 6.00    | 4.58    | 31  |
| 20                      | 0.16    | 6.20    | 2.64    | 31  | 4.00          | 6.00    | 4.87    | 31  |
| 21                      | 0.26    | 6.66    | 2.74    | 31  | 4.00          | 6.00    | 4.84    | 31  |
| 22                      | 0.41    | 5.46    | 2.32    | 31  | 4.00          | 6.00    | 4.65    | 31  |
| 23                      | 0.35    | 7.29    | 2.58    | 31  | 4.00          | 6.00    | 4.55    | 31  |
| 24                      | 0.08    | 5.72    | 2.64    | 31  | 4.00          | 6.00    | 4.71    | 31  |
|                         | -1.46   | 8.31    | 1.23    | 743 | 1.00          | 6.00    | 3.34    | 744 |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: RMA(COMPOSITE)

Period: 9/ 1/91 thru 9/30/91

Month and year of record: SEPTEMBER, 91

| WIND SPEED (M/SEC) |         |         |         |     | WIND DIRECTION (DEG) |         |         |     | SIGMA THETA (DEG) |         |         |     |
|--------------------|---------|---------|---------|-----|----------------------|---------|---------|-----|-------------------|---------|---------|-----|
| HR                 | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM              | MAXIMUM | AVERAGE | OBS | MINIMUM           | MAXIMUM | AVERAGE | OBS |
| 1                  | 3.98    | 18.03   | 7.73    | 30  | 14.83                | 324.70  | 191.58  | 30  | 2.30              | 59.50   | 12.43   | 30  |
| 2                  | 3.24    | 18.40   | 7.44    | 30  | 66.52                | 356.50  | 197.37  | 30  | 2.92              | 69.90   | 13.89   | 30  |
| 3                  | 1.39    | 17.77   | 7.01    | 30  | 23.78                | 324.70  | 199.76  | 30  | 2.89              | 72.40   | 13.57   | 30  |
| 4                  | 2.06    | 19.71   | 6.52    | 30  | 64.34                | 299.90  | 200.09  | 30  | 3.88              | 49.51   | 14.47   | 30  |
| 5                  | 1.54    | 17.97   | 6.13    | 30  | 25.06                | 347.70  | 192.20  | 30  | 2.89              | 61.51   | 14.11   | 30  |
| 6                  | 2.68    | 12.10   | 6.45    | 30  | 38.70                | 357.50  | 192.63  | 30  | 2.33              | 49.02   | 13.99   | 30  |
| 7                  | 2.91    | 13.50   | 6.74    | 30  | 60.92                | 345.80  | 199.24  | 30  | 3.42              | 49.79   | 12.73   | 30  |
| 8                  | 2.39    | 12.93   | 6.67    | 30  | 29.93                | 352.60  | 220.40  | 30  | 4.98              | 60.77   | 18.04   | 30  |
| 9                  | 1.92    | 13.83   | 6.60    | 30  | 13.43                | 354.80  | 240.52  | 30  | 7.50              | 50.92   | 18.92   | 30  |
| 10                 | 2.77    | 18.11   | 6.03    | 30  | 7.95                 | 346.20  | 252.36  | 30  | 5.43              | 69.35   | 28.05   | 30  |
| 11                 | 2.29    | 14.46   | 5.69    | 30  | 3.03                 | 356.70  | 39.25   | 30  | 7.22              | 64.91   | 35.57   | 30  |
| 12                 | 1.95    | 14.48   | 6.24    | 30  | 2.30                 | 357.80  | 69.66   | 30  | 12.25             | 62.94   | 35.03   | 30  |
| 13                 | 2.72    | 17.79   | 6.74    | 30  | 10.85                | 336.60  | 78.07   | 30  | 11.67             | 69.42   | 35.84   | 30  |
| 14                 | 3.20    | 17.89   | 7.87    | 30  | 2.60                 | 344.90  | 39.55   | 30  | 12.26             | 68.22   | 34.67   | 30  |
| 15                 | 2.79    | 23.54   | 9.37    | 30  | 9.07                 | 352.50  | 18.15   | 30  | 6.34              | 76.40   | 31.84   | 30  |
| 16                 | 3.26    | 31.22   | 10.59   | 30  | 7.25                 | 357.50  | 36.62   | 30  | 4.93              | 59.54   | 25.19   | 30  |
| 17                 | 2.06    | 25.93   | 10.59   | 30  | 0.38                 | 358.70  | 19.62   | 30  | 4.80              | 58.80   | 21.17   | 30  |
| 18                 | 2.00    | 22.55   | 10.32   | 30  | 21.52                | 354.90  | 24.30   | 30  | 4.17              | 23.51   | 10.88   | 30  |
| 19                 | 2.16    | 18.06   | 8.93    | 30  | 3.82                 | 343.20  | 332.20  | 30  | 3.16              | 54.86   | 14.62   | 30  |
| 20                 | 1.69    | 18.39   | 8.84    | 30  | 1.86                 | 338.00  | 154.06  | 30  | 3.20              | 68.32   | 19.78   | 30  |
| 21                 | 1.63    | 18.68   | 8.54    | 30  | 12.00                | 353.50  | 187.53  | 30  | 3.97              | 25.68   | 13.09   | 30  |
| 22                 | 2.21    | 20.23   | 8.09    | 30  | 10.84                | 330.60  | 195.14  | 30  | 4.70              | 49.61   | 14.61   | 30  |
| 23                 | 2.69    | 15.59   | 8.08    | 30  | 40.49                | 353.40  | 186.22  | 30  | 2.07              | 49.87   | 13.10   | 30  |
| 24                 | 3.24    | 13.47   | 7.88    | 30  | 0.41                 | 345.50  | 185.33  | 30  | 1.97              | 44.94   | 11.47   | 30  |
| 1.39               | 31.22   | 7.71    | 720     |     | 0.38                 | 358.70  | 188.79  | 720 | 1.97              | 76.40   | 19.88   | 720 |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: RMA(COMPOSITE)

Period: 9/ 1/91 thru 9/30/91

Month and year of record: SEPTEMBER, 91

| TEMPERATURE (DEG F) |         |         |         |     | PRESSURE (IN. HG) |         |         |     | PRECIPITATION (IN) |         |       |     |
|---------------------|---------|---------|---------|-----|-------------------|---------|---------|-----|--------------------|---------|-------|-----|
| HR                  | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM           | MAXIMUM | AVERAGE | OBS | MINIMUM            | MAXIMUM | TOTAL | OBS |
| 1                   | 42.01   | 65.77   | 55.43   | 30  | 24.69             | 25.07   | 24.88   | 30  | 0.00               | 0.08    | 0.09  | 30  |
| 2                   | 40.41   | 64.37   | 54.41   | 30  | 24.69             | 25.07   | 24.88   | 30  | 0.00               | 0.02    | 0.02  | 30  |
| 3                   | 38.90   | 64.15   | 53.64   | 30  | 24.69             | 25.07   | 24.87   | 30  | 0.00               | 0.00    | 0.00  | 30  |
| 4                   | 38.61   | 63.91   | 53.00   | 30  | 24.69             | 25.07   | 24.87   | 30  | 0.00               | 0.00    | 0.00  | 30  |
| 5                   | 38.73   | 62.45   | 52.12   | 30  | 24.68             | 25.07   | 24.87   | 30  | 0.00               | 0.00    | 0.00  | 30  |
| 6                   | 37.58   | 60.85   | 51.34   | 30  | 24.67             | 25.07   | 24.88   | 30  | 0.00               | 0.00    | 0.00  | 30  |
| 7                   | 38.11   | 62.67   | 52.09   | 30  | 24.67             | 25.07   | 24.88   | 30  | 0.00               | 0.00    | 0.00  | 30  |
| 8                   | 40.42   | 67.38   | 55.94   | 30  | 24.67             | 25.07   | 24.88   | 30  | 0.00               | 0.00    | 0.00  | 30  |
| 9                   | 41.94   | 72.70   | 59.99   | 30  | 24.66             | 25.07   | 24.88   | 30  | 0.00               | 0.05    | 0.07  | 30  |
| 10                  | 44.28   | 76.60   | 63.64   | 30  | 24.65             | 25.09   | 24.88   | 29  | 0.00               | 0.05    | 0.05  | 30  |
| 11                  | 46.50   | 79.20   | 66.81   | 30  | 24.64             | 25.09   | 24.88   | 29  | 0.00               | 0.05    | 0.05  | 30  |
| 12                  | 48.10   | 81.30   | 69.31   | 30  | 24.61             | 25.08   | 24.86   | 29  | 0.00               | 0.01    | 0.02  | 30  |
| 13                  | 48.72   | 81.50   | 71.15   | 30  | 24.59             | 25.07   | 24.84   | 30  | 0.00               | 0.01    | 0.01  | 30  |
| 14                  | 48.92   | 83.20   | 72.36   | 30  | 24.56             | 25.06   | 24.83   | 30  | 0.00               | 0.00    | 0.00  | 30  |
| 15                  | 50.18   | 84.20   | 72.58   | 30  | 24.54             | 25.05   | 24.81   | 30  | 0.00               | 0.00    | 0.00  | 30  |
| 16                  | 50.94   | 83.90   | 71.54   | 30  | 24.54             | 25.04   | 24.81   | 30  | 0.00               | 0.02    | 0.02  | 30  |
| 17                  | 50.86   | 83.00   | 70.28   | 30  | 24.55             | 25.02   | 24.82   | 30  | 0.00               | 0.06    | 0.06  | 30  |
| 18                  | 49.73   | 79.40   | 67.15   | 30  | 24.60             | 25.02   | 24.83   | 30  | 0.00               | 0.02    | 0.02  | 30  |
| 19                  | 47.48   | 75.90   | 64.57   | 30  | 24.62             | 25.02   | 24.84   | 30  | 0.00               | 0.01    | 0.01  | 30  |
| 20                  | 46.61   | 73.40   | 62.22   | 30  | 24.69             | 25.03   | 24.85   | 30  | 0.00               | 0.05    | 0.05  | 30  |
| 21                  | 45.27   | 70.70   | 60.13   | 30  | 24.69             | 25.04   | 24.86   | 30  | 0.00               | 0.05    | 0.05  | 30  |
| 22                  | 43.31   | 70.60   | 58.74   | 30  | 24.70             | 25.05   | 24.87   | 30  | 0.00               | 0.09    | 0.09  | 30  |
| 23                  | 41.62   | 69.31   | 57.30   | 30  | 24.71             | 25.05   | 24.88   | 30  | 0.00               | 0.17    | 0.17  | 30  |
| 24                  | 42.46   | 67.80   | 56.04   | 30  | 24.70             | 25.05   | 24.88   | 30  | 0.00               | 0.20    | 0.20  | 30  |
|                     | 37.58   | 84.20   | 61.32   | 720 | 24.54             | 25.09   | 24.86   | 717 | 0.00               | 0.20    | 0.98  | 720 |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: RMA(COMPOSITE)

Period: 9/ 1/91 thru 9/30/91

Month and year of record: SEPTEMBER, 91

| SOLAR RADIATION (LY/YR) |         |         |         |     | RELATIVE HUMIDITY (%) |         |         |     | PEAK WIND SPEED (M/SEC) |         |         |     |
|-------------------------|---------|---------|---------|-----|-----------------------|---------|---------|-----|-------------------------|---------|---------|-----|
| HR                      | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM               | MAXIMUM | AVERAGE | OBS | MINIMUM                 | MAXIMUM | AVERAGE | OBS |
| 1                       | -0.01   | -0.00   | -0.01   | 30  | 28.18                 | 98.60   | 61.92   | 30  | 6.10                    | 18.33   | 11.47   | 24  |
| 2                       | -0.01   | 0.00    | -0.01   | 30  | 29.28                 | 98.90   | 64.77   | 30  | 5.94                    | 20.47   | 10.74   | 24  |
| 3                       | -0.01   | 0.00    | -0.01   | 30  | 31.47                 | 100.30  | 66.51   | 30  | 3.46                    | 26.29   | 10.58   | 24  |
| 4                       | -0.01   | 0.00    | -0.01   | 30  | 33.75                 | 100.50  | 68.35   | 30  | 1.59                    | 27.76   | 10.10   | 24  |
| 5                       | -0.01   | 0.00    | -0.01   | 30  | 37.41                 | 100.60  | 70.32   | 30  | 3.62                    | 26.65   | 9.67    | 24  |
| 6                       | -0.00   | 0.02    | 0.00    | 30  | 38.09                 | 100.50  | 71.63   | 30  | 4.79                    | 18.85   | 10.02   | 24  |
| 7                       | 0.02    | 0.23    | 0.14    | 30  | 38.06                 | 99.90   | 71.25   | 30  | 6.45                    | 26.09   | 10.81   | 24  |
| 8                       | 0.03    | 0.55    | 0.40    | 30  | 37.64                 | 98.10   | 65.01   | 30  | 4.72                    | 19.06   | 11.10   | 25  |
| 9                       | 0.05    | 0.84    | 0.67    | 30  | 27.46                 | 98.30   | 56.12   | 30  | 4.76                    | 22.38   | 11.65   | 25  |
| 10                      | 0.10    | 1.16    | 0.93    | 30  | 18.12                 | 98.30   | 49.25   | 30  | 6.01                    | 22.83   | 11.76   | 25  |
| 11                      | 0.23    | 1.36    | 1.12    | 30  | 14.09                 | 98.10   | 43.21   | 30  | 6.87                    | 32.81   | 12.12   | 26  |
| 12                      | 0.14    | 1.40    | 1.18    | 30  | 12.26                 | 97.40   | 38.07   | 30  | 6.19                    | 26.99   | 13.78   | 26  |
| 13                      | 0.21    | 1.39    | 1.11    | 30  | 11.81                 | 97.50   | 34.24   | 30  | 8.29                    | 28.33   | 15.67   | 26  |
| 14                      | 0.31    | 1.29    | 0.99    | 30  | 11.56                 | 96.70   | 31.52   | 30  | 7.29                    | 31.28   | 17.26   | 26  |
| 15                      | 0.17    | 1.10    | 0.78    | 30  | 11.38                 | 95.70   | 30.01   | 30  | 6.13                    | 34.28   | 17.72   | 25  |
| 16                      | 0.08    | 0.80    | 0.49    | 30  | 11.19                 | 93.80   | 31.46   | 30  | 8.72                    | 35.93   | 18.64   | 25  |
| 17                      | 0.06    | 0.49    | 0.26    | 30  | 11.51                 | 89.50   | 33.57   | 30  | 5.66                    | 37.61   | 18.60   | 25  |
| 18                      | 0.01    | 0.19    | 0.07    | 30  | 12.22                 | 89.90   | 38.31   | 30  | 5.54                    | 33.85   | 15.90   | 25  |
| 19                      | -0.01   | 0.00    | -0.00   | 30  | 13.09                 | 90.90   | 41.07   | 30  | 4.51                    | 28.49   | 14.93   | 25  |
| 20                      | -0.01   | -0.00   | -0.01   | 30  | 14.31                 | 91.40   | 44.68   | 30  | 5.16                    | 34.45   | 14.72   | 25  |
| 21                      | -0.01   | 0.00    | -0.01   | 30  | 19.34                 | 94.20   | 49.01   | 30  | 6.33                    | 32.45   | 13.72   | 25  |
| 22                      | -0.01   | 0.00    | -0.01   | 30  | 24.36                 | 94.50   | 52.81   | 30  | 4.60                    | 34.58   | 12.97   | 25  |
| 23                      | -0.01   | -0.00   | -0.01   | 30  | 24.92                 | 95.70   | 56.70   | 30  | 7.42                    | 25.63   | 12.35   | 25  |
| 24                      | -0.01   | -0.00   | -0.01   | 30  | 27.85                 | 97.40   | 60.97   | 30  | 5.40                    | 19.30   | 11.49   | 25  |
|                         | -0.01   | 1.40    | 0.34    | 720 | 11.19                 | 100.60  | 51.28   | 720 | 1.59                    | 37.61   | 13.24   | 597 |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: RMA(COMPOSITE)

Period: 9/ 1/91 thru 9/30/91

Month and year of record: SEPTEMBER, 91

| TEMP DIFFERENCE (DEG F) |         |         |         |     | P-G STABILITY |         |         |     |  |
|-------------------------|---------|---------|---------|-----|---------------|---------|---------|-----|--|
| HR                      | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM       | MAXIMUM | AVERAGE | OBS |  |
| 1                       | -0.11   | 7.55    | 3.33    | 30  | 4.00          | 6.00    | 4.53    | 30  |  |
| 2                       | -0.13   | 7.59    | 3.25    | 30  | 4.00          | 6.00    | 4.77    | 30  |  |
| 3                       | -0.05   | 6.32    | 3.45    | 30  | 4.00          | 6.00    | 4.67    | 30  |  |
| 4                       | -0.05   | 9.90    | 3.65    | 30  | 4.00          | 6.00    | 4.83    | 30  |  |
| 5                       | -0.04   | 8.75    | 3.57    | 30  | 4.00          | 6.00    | 4.70    | 30  |  |
| 6                       | -0.05   | 7.74    | 3.42    | 30  | 4.00          | 6.00    | 5.03    | 30  |  |
| 7                       | -0.33   | 4.61    | 1.19    | 30  | 4.00          | 6.00    | 4.73    | 30  |  |
| 8                       | -0.79   | 1.20    | -0.26   | 30  | 1.00          | 4.00    | 2.97    | 30  |  |
| 9                       | -1.29   | 0.02    | -0.66   | 30  | 1.00          | 4.00    | 2.57    | 30  |  |
| 10                      | -1.48   | 0.00    | -0.90   | 30  | 1.00          | 4.00    | 1.70    | 30  |  |
| 11                      | -1.71   | -0.07   | -1.06   | 30  | 1.00          | 4.00    | 1.50    | 30  |  |
| 12                      | -1.96   | -0.08   | -1.15   | 30  | 1.00          | 4.00    | 1.57    | 30  |  |
| 13                      | -1.76   | -0.17   | -1.07   | 30  | 1.00          | 4.00    | 1.43    | 30  |  |
| 14                      | -1.92   | -0.04   | -1.02   | 30  | 1.00          | 4.00    | 1.70    | 30  |  |
| 15                      | -1.71   | 0.08    | -0.85   | 30  | 1.00          | 4.00    | 1.73    | 30  |  |
| 16                      | -1.56   | 1.04    | -0.43   | 30  | 1.00          | 4.00    | 2.27    | 30  |  |
| 17                      | -0.83   | 1.36    | 0.03    | 30  | 1.00          | 4.00    | 2.63    | 30  |  |
| 18                      | -0.07   | 2.94    | 1.29    | 30  | 4.00          | 6.00    | 4.47    | 30  |  |
| 19                      | -0.04   | 5.95    | 2.65    | 30  | 4.00          | 6.00    | 4.57    | 30  |  |
| 20                      | -0.05   | 12.81   | 3.10    | 30  | 4.00          | 6.00    | 4.57    | 30  |  |
| 21                      | -0.03   | 8.13    | 2.77    | 30  | 4.00          | 6.00    | 4.57    | 30  |  |
| 22                      | -0.00   | 7.91    | 2.95    | 30  | 4.00          | 6.00    | 4.43    | 30  |  |
| 23                      | -0.09   | 7.48    | 3.02    | 30  | 4.00          | 6.00    | 4.63    | 30  |  |
| 24                      | -0.10   | 7.67    | 3.26    | 30  | 4.00          | 6.00    | 4.40    | 30  |  |
|                         | -1.96   | 12.81   | 1.40    | 720 | 1.00          | 6.00    | 3.54    | 720 |  |



WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: MET1

Period: 1/22/91 thru 1/31/91

Month and year of record: JANUARY, 91

| WIND SPEED (MPH) |         |         |         |     | WIND DIRECTION (DEG) |         |         |     | AIR TEMPERATURE (F) |         |         |     |
|------------------|---------|---------|---------|-----|----------------------|---------|---------|-----|---------------------|---------|---------|-----|
| HR               | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM              | MAXIMUM | AVERAGE | OBS | MINIMUM             | MAXIMUM | AVERAGE | OBS |
| 1                | 2.98    | 21.05   | 10.79   | 9   | 6.59                 | 296.50  | 197.53  | 9   | 4.41                | 37.50   | 19.28   | 9   |
| 2                | 2.37    | 13.17   | 8.68    | 9   | 5.31                 | 305.80  | 219.83  | 9   | 1.92                | 38.45   | 20.12   | 9   |
| 3                | 4.57    | 10.87   | 7.18    | 9   | 13.93                | 359.40  | 234.74  | 9   | 0.49                | 42.51   | 20.72   | 9   |
| 4                | 5.48    | 10.74   | 8.24    | 9   | 12.12                | 328.40  | 204.52  | 9   | 1.32                | 37.97   | 20.53   | 9   |
| 5                | 5.26    | 14.07   | 9.02    | 9   | 25.67                | 294.70  | 220.22  | 9   | 0.36                | 35.79   | 19.62   | 9   |
| 6                | 5.26    | 15.14   | 8.88    | 9   | 64.49                | 235.90  | 170.59  | 9   | -0.14               | 38.08   | 18.36   | 9   |
| 7                | 2.52    | 17.40   | 8.92    | 9   | 79.60                | 212.00  | 174.69  | 9   | -0.44               | 41.08   | 17.55   | 9   |
| 8                | 3.05    | 16.91   | 9.49    | 9   | 102.80               | 256.30  | 175.56  | 9   | -0.53               | 37.35   | 17.07   | 9   |
| 9                | 3.26    | 13.91   | 8.18    | 9   | 83.40                | 277.30  | 159.35  | 9   | 0.79                | 40.14   | 18.14   | 9   |
| 10               | 4.53    | 13.56   | 8.18    | 9   | 10.54                | 355.30  | 153.45  | 9   | 2.36                | 44.06   | 21.22   | 9   |
| 11               | 4.64    | 19.51   | 8.42    | 9   | 85.20                | 350.90  | 108.24  | 9   | 4.32                | 44.52   | 25.10   | 9   |
| 12               | 4.96    | 12.55   | 7.81    | 9   | 2.82                 | 274.70  | 174.05  | 9   | 5.91                | 46.84   | 27.22   | 9   |
| 13               | 2.92    | 16.17   | 8.27    | 9   | 24.23                | 285.10  | 69.29   | 9   | 7.05                | 50.25   | 29.44   | 9   |
| 14               | 2.94    | 16.60   | 9.30    | 9   | 31.44                | 279.00  | 79.43   | 9   | 9.25                | 49.28   | 30.86   | 9   |
| 15               | 2.65    | 15.87   | 7.61    | 9   | 17.34                | 291.40  | 101.13  | 9   | 11.81               | 48.96   | 32.12   | 9   |
| 16               | 1.81    | 13.21   | 7.77    | 9   | 19.30                | 298.00  | 81.42   | 9   | 14.33               | 49.29   | 31.59   | 9   |
| 17               | 2.67    | 12.20   | 7.62    | 10  | 8.18                 | 327.60  | 51.96   | 10  | 11.84               | 46.35   | 30.89   | 10  |
| 18               | 1.58    | 23.20   | 9.10    | 10  | 29.30                | 344.50  | 87.25   | 10  | 9.03                | 46.22   | 28.90   | 10  |
| 19               | 2.64    | 24.48   | 9.28    | 10  | 3.22                 | 337.00  | 289.03  | 10  | 6.51                | 40.57   | 27.41   | 10  |
| 20               | 3.47    | 19.99   | 9.34    | 10  | 8.98                 | 291.10  | 267.30  | 10  | 3.75                | 41.08   | 25.92   | 10  |
| 21               | 1.77    | 21.99   | 10.26   | 10  | 5.64                 | 357.10  | 252.25  | 10  | 2.56                | 40.13   | 24.11   | 10  |
| 22               | 1.55    | 20.00   | 8.92    | 10  | 19.65                | 312.50  | 248.58  | 10  | 2.61                | 40.61   | 22.69   | 10  |
| 23               | 1.86    | 20.86   | 10.12   | 10  | 19.74                | 346.60  | 207.68  | 10  | 4.85                | 43.27   | 22.86   | 10  |
| 24               | 3.17    | 23.03   | 11.16   | 10  | 8.96                 | 288.30  | 176.95  | 10  | 7.23                | 39.54   | 21.80   | 10  |
|                  | 1.55    | 24.48   | 8.88    | 224 | 2.82                 | 359.40  | 177.49  | 1   | -0.53               | 50.25   | 23.96   | 224 |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: MET1

Period: 1/22/91 thru 1/31/91

Month and year of record: JANUARY, 91

| RELATIVE HUMIDITY     |         |         |         |     | MAXIMUM WIND SPEED (MPH) |         |         |     | PRECIPITATION (IN) |         |       |     |
|-----------------------|---------|---------|---------|-----|--------------------------|---------|---------|-----|--------------------|---------|-------|-----|
| HR                    | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM                  | MAXIMUM | AVERAGE | OBS | MINIMUM            | MAXIMUM | TOTAL | OBS |
| 1                     | 21.09   | 97.50   | 64.98   | 9   | 10.31                    | 30.19   | 17.14   | 9   | 0.00               | 0.00    | 0.00  | 9   |
| 2                     | 20.70   | 97.70   | 62.61   | 9   | 5.39                     | 27.16   | 15.38   | 9   | 0.00               | 0.00    | 0.00  | 9   |
| 3                     | 19.60   | 97.00   | 61.82   | 9   | 6.40                     | 17.41   | 11.66   | 9   | 0.00               | 0.00    | 0.00  | 9   |
| 4                     | 20.83   | 97.00   | 61.11   | 9   | 9.89                     | 18.99   | 13.52   | 9   | 0.00               | 0.00    | 0.00  | 9   |
| 5                     | 21.55   | 96.40   | 60.43   | 9   | 8.31                     | 24.01   | 14.46   | 9   | 0.00               | 0.00    | 0.00  | 9   |
| 6                     | 20.84   | 96.10   | 61.04   | 9   | 7.55                     | 28.22   | 14.45   | 9   | 0.00               | 0.00    | 0.00  | 9   |
| 7                     | 19.76   | 95.80   | 61.45   | 9   | 5.55                     | 22.44   | 13.09   | 9   | 0.00               | 0.00    | 0.00  | 9   |
| 8                     | 20.73   | 95.90   | 60.25   | 9   | 4.07                     | 22.39   | 13.04   | 9   | 0.00               | 0.00    | 0.00  | 9   |
| 9                     | 20.20   | 94.20   | 59.83   | 9   | 6.08                     | 19.81   | 12.58   | 9   | 0.00               | 0.00    | 0.00  | 9   |
| 10                    | 19.45   | 91.10   | 57.58   | 9   | 6.78                     | 24.28   | 13.13   | 9   | 0.00               | 0.00    | 0.00  | 9   |
| 11                    | 20.10   | 82.70   | 53.50   | 9   | 7.38                     | 30.25   | 13.95   | 9   | 0.00               | 0.00    | 0.00  | 9   |
| 12                    | 19.60   | 76.90   | 51.13   | 9   | 7.82                     | 26.06   | 14.01   | 9   | 0.00               | 0.00    | 0.00  | 9   |
| 13                    | 18.76   | 84.60   | 49.61   | 9   | 8.75                     | 32.26   | 15.68   | 9   | 0.00               | 0.00    | 0.00  | 9   |
| 14                    | 19.70   | 94.60   | 48.81   | 9   | 7.56                     | 30.05   | 15.30   | 9   | 0.00               | 0.00    | 0.00  | 9   |
| 15                    | 19.36   | 83.20   | 46.68   | 9   | 4.74                     | 25.14   | 12.68   | 9   | 0.00               | 0.00    | 0.00  | 9   |
| 16                    | 19.23   | 87.10   | 48.66   | 9   | 4.64                     | 22.54   | 13.55   | 9   | 0.00               | 0.00    | 0.00  | 9   |
| 17                    | 19.45   | 94.60   | 47.27   | 10  | 3.96                     | 24.46   | 13.07   | 10  | 0.00               | 0.00    | 0.00  | 10  |
| 18                    | 20.31   | 97.70   | 50.74   | 10  | 3.23                     | 36.93   | 14.58   | 10  | 0.00               | 0.00    | 0.00  | 10  |
| 19                    | 21.28   | 98.60   | 54.73   | 10  | 5.56                     | 31.23   | 15.17   | 10  | 0.00               | 0.00    | 0.00  | 10  |
| 20                    | 20.68   | 98.50   | 56.77   | 10  | 5.72                     | 26.49   | 13.96   | 10  | 0.00               | 0.00    | 0.00  | 10  |
| 21                    | 20.85   | 97.30   | 57.98   | 10  | 4.34                     | 33.49   | 15.77   | 10  | 0.00               | 0.00    | 0.00  | 10  |
| 22                    | 20.50   | 95.70   | 60.37   | 10  | 4.23                     | 32.02   | 15.68   | 10  | 0.00               | 0.00    | 0.00  | 10  |
| 23                    | 19.65   | 95.60   | 61.12   | 10  | 3.79                     | 38.11   | 18.15   | 10  | 0.00               | 0.00    | 0.00  | 10  |
| 24                    | 20.67   | 97.40   | 62.91   | 10  | 6.20                     | 33.70   | 17.54   | 10  | 0.00               | 0.00    | 0.00  | 10  |
| 18.76 98.60 56.71 224 |         |         |         |     | 3.23 38.11 14.52 224     |         |         |     | 0.00 0.00 0.00 224 |         |       |     |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: MET1

Period: 1/22/91 thru 1/31/91

Month and year of record: JANUARY, 91

| AIR TEMPERATURE 2 METERS (F) |         |         |         |     | TEMPERATURE DIFFERENCE (F) |         |         |     | SIGMA THETA (DEGREES) |         |         |     |
|------------------------------|---------|---------|---------|-----|----------------------------|---------|---------|-----|-----------------------|---------|---------|-----|
| HR                           | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM                    | MAXIMUM | AVERAGE | OBS | MINIMUM               | MAXIMUM | AVERAGE | OBS |
| 1                            | -3.99   | 33.23   | 15.54   | 9   | -0.03                      | 7.30    | 3.27    | 9   | 5.85                  | 38.31   | 13.77   | 9   |
| 2                            | -3.00   | 34.82   | 16.95   | 9   | -0.04                      | 7.50    | 2.89    | 9   | 5.09                  | 44.74   | 19.03   | 9   |
| 3                            | -1.89   | 40.04   | 16.66   | 9   | -0.02                      | 9.50    | 3.69    | 9   | 4.59                  | 22.27   | 10.87   | 9   |
| 4                            | -4.36   | 31.17   | 15.67   | 9   | -0.01                      | 9.31    | 4.47    | 9   | 5.86                  | 34.53   | 14.03   | 9   |
| 5                            | -4.99   | 31.74   | 15.71   | 9   | -0.06                      | 7.43    | 3.47    | 9   | 6.83                  | 30.80   | 14.75   | 9   |
| 6                            | -2.89   | 34.43   | 15.24   | 9   | -0.06                      | 5.89    | 2.70    | 9   | 5.16                  | 29.23   | 12.96   | 9   |
| 7                            | -2.16   | 34.88   | 14.34   | 9   | 0.09                       | 6.09    | 2.80    | 9   | 5.87                  | 22.60   | 11.62   | 9   |
| 8                            | -3.04   | 27.49   | 13.20   | 9   | 0.50                       | 9.54    | 3.34    | 9   | 5.07                  | 23.73   | 9.59    | 9   |
| 9                            | -1.68   | 32.96   | 14.84   | 9   | 0.88                       | 6.96    | 2.67    | 9   | 2.99                  | 29.49   | 11.90   | 9   |
| 10                           | 0.23    | 40.34   | 19.11   | 9   | -0.12                      | 3.50    | 1.42    | 9   | 3.11                  | 26.48   | 13.10   | 9   |
| 11                           | 2.22    | 42.22   | 23.33   | 9   | -0.25                      | 1.93    | 0.80    | 9   | 3.72                  | 56.18   | 18.42   | 9   |
| 12                           | 3.69    | 45.15   | 25.55   | 9   | -0.31                      | 1.43    | 0.60    | 9   | 5.24                  | 29.98   | 15.00   | 9   |
| 13                           | 4.78    | 48.09   | 27.64   | 9   | -0.18                      | 1.33    | 0.55    | 9   | 6.25                  | 58.62   | 22.24   | 9   |
| 14                           | 6.24    | 45.77   | 28.88   | 9   | -0.15                      | 3.04    | 0.78    | 9   | 3.37                  | 58.39   | 16.74   | 9   |
| 15                           | 8.86    | 45.60   | 29.95   | 9   | -0.17                      | 2.66    | 0.86    | 9   | 6.49                  | 39.85   | 19.97   | 9   |
| 16                           | 9.90    | 44.76   | 28.90   | 9   | -0.17                      | 5.64    | 1.50    | 9   | 7.14                  | 19.79   | 13.25   | 9   |
| 17                           | 8.27    | 42.44   | 28.12   | 10  | -0.08                      | 4.70    | 1.82    | 10  | 2.60                  | 26.78   | 14.79   | 10  |
| 18                           | 6.21    | 39.66   | 25.54   | 10  | 0.06                       | 6.90    | 2.99    | 10  | 3.26                  | 33.42   | 15.10   | 10  |
| 19                           | 3.34    | 38.18   | 24.16   | 10  | -0.15                      | 4.85    | 2.87    | 10  | 3.18                  | 25.16   | 15.79   | 10  |
| 20                           | 1.77    | 38.63   | 22.18   | 10  | -0.16                      | 6.93    | 3.39    | 10  | 3.89                  | 46.51   | 18.86   | 10  |
| 21                           | -1.42   | 37.78   | 20.50   | 10  | -0.13                      | 6.28    | 3.17    | 10  | 3.76                  | 42.55   | 18.17   | 10  |
| 22                           | 0.55    | 38.74   | 19.67   | 10  | -0.14                      | 4.90    | 2.66    | 10  | 4.18                  | 43.44   | 20.90   | 10  |
| 23                           | 2.39    | 39.95   | 19.69   | 10  | -0.13                      | 4.91    | 2.85    | 10  | 5.66                  | 37.04   | 14.42   | 10  |
| 24                           | 1.65    | 34.46   | 17.90   | 10  | -0.07                      | 7.54    | 3.50    | 10  | 6.47                  | 39.58   | 14.18   | 10  |
|                              | -4.99   | 48.09   | 20.85   | 224 | -0.31                      | 9.54    | 2.48    | 224 | 2.60                  | 58.62   | 15.43   | 224 |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: MET1

Period: 1/22/91 thru 1/31/91

Month and year of record: JANUARY, 91

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P-G STABILITY CLASSIFICATION

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| HR    | MINIMUM | MAXIMUM | AVERAGE | OBS |
|-------|---------|---------|---------|-----|
| 1     | 1.00    | 4.00    | 3.22    | 9   |
| 2     | 1.00    | 4.00    | 2.67    | 9   |
| 3     | 2.00    | 4.00    | 3.56    | 9   |
| 4     | 1.00    | 4.00    | 3.22    | 9   |
| 5     | 1.00    | 4.00    | 3.22    | 9   |
| 6     | 1.00    | 4.00    | 3.44    | 9   |
| 7     | 1.00    | 4.00    | 3.33    | 9   |
| 8     | 4.00    | 6.00    | 4.33    | 9   |
| 9     | 4.00    | 6.00    | 4.67    | 9   |
| 10    | 4.00    | 6.00    | 4.67    | 9   |
| 11    | 4.00    | 6.00    | 4.78    | 9   |
| 12    | 4.00    | 6.00    | 4.67    | 9   |
| 13    | 4.00    | 6.00    | 4.56    | 9   |
| 14    | 4.00    | 6.00    | 4.78    | 9   |
| 15    | 4.00    | 6.00    | 5.11    | 9   |
| 16    | 4.00    | 6.00    | 4.56    | 9   |
| 17    | 4.00    | 6.00    | 4.70    | 10  |
| 18    | 4.00    | 6.00    | 4.70    | 10  |
| 19    | 4.00    | 6.00    | 4.60    | 10  |
| 20    | 4.00    | 6.00    | 4.70    | 10  |
| 21    | 4.00    | 6.00    | 4.70    | 10  |
| 22    | 4.00    | 6.00    | 5.00    | 10  |
| 23    | 4.00    | 6.00    | 4.40    | 10  |
| 24    | 4.00    | 6.00    | 4.50    | 10  |
| <hr/> |         |         |         |     |
|       | 1.00    | 6.00    | 4.27    | 224 |

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WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: MET1

Period: 2/ 1/91 thru 2/28/91

Month and year of record: FEBRUARY, 91

| WIND SPEED (MPH) |         |         |         |     | WIND DIRECTION (DEG) |         |         |     | AIR TEMPERATURE (F) |         |         |     |
|------------------|---------|---------|---------|-----|----------------------|---------|---------|-----|---------------------|---------|---------|-----|
| HR               | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM              | MAXIMUM | AVERAGE | OBS | MINIMUM             | MAXIMUM | AVERAGE | OBS |
| 1                | 3.72    | 14.08   | 8.77    | 28  | 1.92                 | 304.60  | 187.19  | 28  | 23.75               | 46.41   | 34.98   | 28  |
| 2                | 2.81    | 14.28   | 8.84    | 28  | 26.25                | 347.10  | 189.99  | 28  | 19.98               | 43.77   | 34.05   | 28  |
| 3                | 3.12    | 15.59   | 8.73    | 28  | 105.70               | 306.20  | 188.78  | 28  | 17.05               | 44.32   | 33.50   | 28  |
| 4                | 3.42    | 17.18   | 8.54    | 28  | 21.39                | 278.50  | 193.94  | 28  | 15.98               | 44.79   | 32.71   | 28  |
| 5                | 3.58    | 13.57   | 8.46    | 28  | 133.60               | 279.80  | 193.58  | 28  | 15.03               | 45.44   | 32.63   | 28  |
| 6                | 4.97    | 12.51   | 8.86    | 28  | 91.60                | 271.00  | 198.96  | 28  | 16.10               | 45.87   | 32.33   | 28  |
| 7                | 5.08    | 15.44   | 9.28    | 28  | 50.64                | 313.10  | 195.98  | 28  | 18.72               | 46.16   | 31.89   | 28  |
| 8                | 4.00    | 12.73   | 8.36    | 28  | 56.98                | 324.30  | 202.06  | 28  | 22.15               | 47.64   | 32.18   | 28  |
| 9                | 3.79    | 14.74   | 7.95    | 28  | 112.90               | 353.30  | 209.31  | 28  | 24.19               | 50.38   | 35.64   | 28  |
| 10               | 1.91    | 15.41   | 8.04    | 28  | 3.93                 | 352.30  | 219.14  | 28  | 25.65               | 53.44   | 40.17   | 28  |
| 11               | 3.54    | 22.73   | 8.13    | 28  | 1.01                 | 347.40  | 236.63  | 28  | 28.14               | 55.95   | 44.01   | 28  |
| 12               | 1.90    | 21.61   | 8.18    | 27  | 2.30                 | 358.50  | 26.92   | 27  | 28.01               | 57.55   | 46.67   | 27  |
| 13               | 3.00    | 23.55   | 8.18    | 28  | 2.17                 | 356.00  | 37.09   | 28  | 27.34               | 58.35   | 48.79   | 28  |
| 14               | 2.35    | 26.05   | 8.66    | 28  | 3.42                 | 357.00  | 36.24   | 28  | 26.35               | 59.12   | 49.97   | 28  |
| 15               | 2.92    | 25.22   | 9.51    | 28  | 7.37                 | 359.40  | 42.48   | 28  | 25.80               | 60.82   | 50.35   | 28  |
| 16               | 3.95    | 20.88   | 9.48    | 28  | 0.86                 | 359.30  | 47.43   | 28  | 26.26               | 62.99   | 50.11   | 28  |
| 17               | 2.33    | 22.74   | 8.16    | 28  | 4.74                 | 347.60  | 49.38   | 28  | 26.82               | 63.62   | 49.12   | 28  |
| 18               | 0.90    | 17.05   | 7.51    | 28  | 2.00                 | 358.60  | 36.24   | 28  | 26.34               | 58.04   | 46.42   | 28  |
| 19               | 1.78    | 16.46   | 7.50    | 28  | 0.51                 | 339.40  | 116.68  | 28  | 25.35               | 52.70   | 43.92   | 28  |
| 20               | 1.85    | 17.37   | 7.06    | 28  | 5.96                 | 294.80  | 182.14  | 28  | 25.00               | 52.23   | 42.10   | 28  |
| 21               | 2.42    | 11.52   | 7.17    | 28  | 33.87                | 351.10  | 174.47  | 28  | 24.91               | 50.52   | 40.49   | 28  |
| 22               | 3.68    | 15.99   | 8.57    | 28  | 62.00                | 286.00  | 177.84  | 28  | 24.67               | 50.32   | 38.87   | 28  |
| 23               | 3.44    | 19.87   | 8.94    | 28  | 68.69                | 352.20  | 183.13  | 28  | 24.60               | 49.40   | 36.92   | 28  |
| 24               | 5.41    | 20.31   | 9.23    | 28  | 94.80                | 341.30  | 182.50  | 28  | 24.60               | 48.02   | 35.68   | 28  |
|                  | 0.90    | 26.05   | 8.42    | 671 | 0.51                 | 359.40  | 187.06  | 1   | 15.03               | 63.62   | 40.14   | 671 |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: MET1

Period: 2/ 1/91 thru 2/28/91

Month and year of record: FEBRUARY, 91

| RELATIVE HUMIDITY |         |         |         |     | MAXIMUM WIND SPEED (MPH) |         |         |     | PRECIPITATION (IN) |         |       |     |
|-------------------|---------|---------|---------|-----|--------------------------|---------|---------|-----|--------------------|---------|-------|-----|
| HR                | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM                  | MAXIMUM | AVERAGE | OBS | MINIMUM            | MAXIMUM | TOTAL | OBS |
| 1                 | 19.68   | 87.80   | 51.29   | 28  | 5.66                     | 22.48   | 12.43   | 28  | 0.00               | 0.00    | 0.00  | 28  |
| 2                 | 20.52   | 90.30   | 52.19   | 28  | 4.34                     | 21.09   | 12.41   | 28  | 0.00               | 0.00    | 0.00  | 28  |
| 3                 | 20.54   | 93.10   | 53.45   | 28  | 4.86                     | 20.09   | 11.77   | 28  | 0.00               | 0.00    | 0.00  | 28  |
| 4                 | 21.39   | 93.80   | 53.68   | 28  | 6.00                     | 21.99   | 11.75   | 28  | 0.00               | 0.00    | 0.00  | 28  |
| 5                 | 21.22   | 94.40   | 53.42   | 28  | 6.50                     | 21.71   | 11.85   | 28  | 0.00               | 0.00    | 0.00  | 28  |
| 6                 | 21.17   | 93.90   | 53.33   | 28  | 7.79                     | 19.19   | 12.30   | 28  | 0.00               | 0.00    | 0.00  | 28  |
| 7                 | 22.27   | 93.90   | 53.97   | 28  | 7.59                     | 26.27   | 12.76   | 28  | 0.00               | 0.00    | 0.00  | 28  |
| 8                 | 21.98   | 93.60   | 55.17   | 28  | 7.23                     | 18.08   | 11.69   | 28  | 0.00               | 0.00    | 0.00  | 28  |
| 9                 | 20.68   | 88.70   | 51.87   | 28  | 6.09                     | 19.25   | 11.54   | 28  | 0.00               | 0.00    | 0.00  | 28  |
| 10                | 18.89   | 80.50   | 44.30   | 28  | 5.67                     | 22.46   | 12.74   | 28  | 0.00               | 0.00    | 0.00  | 28  |
| 11                | 17.62   | 74.90   | 37.61   | 28  | 6.73                     | 35.28   | 13.09   | 28  | 0.00               | 0.00    | 0.00  | 28  |
| 12                | 16.67   | 86.10   | 34.03   | 27  | 4.59                     | 31.01   | 13.28   | 27  | 0.00               | 0.00    | 0.00  | 28  |
| 13                | 16.05   | 92.20   | 31.02   | 28  | 5.84                     | 30.96   | 14.19   | 28  | 0.00               | 0.00    | 0.00  | 28  |
| 14                | 15.86   | 96.30   | 29.73   | 28  | 4.73                     | 37.85   | 15.55   | 28  | 0.00               | 0.00    | 0.00  | 28  |
| 15                | 15.73   | 96.20   | 29.16   | 28  | 7.96                     | 37.08   | 15.78   | 28  | 0.00               | 0.00    | 0.00  | 28  |
| 16                | 14.98   | 90.80   | 29.53   | 28  | 6.67                     | 29.85   | 15.16   | 28  | 0.00               | 0.00    | 0.00  | 28  |
| 17                | 14.81   | 77.50   | 31.12   | 28  | 3.56                     | 36.09   | 13.51   | 28  | 0.00               | 0.00    | 0.00  | 28  |
| 18                | 16.47   | 75.30   | 34.23   | 28  | 1.49                     | 29.05   | 11.52   | 28  | 0.00               | 0.00    | 0.00  | 28  |
| 19                | 17.20   | 79.50   | 37.61   | 28  | 3.26                     | 26.75   | 11.87   | 28  | 0.00               | 0.00    | 0.00  | 28  |
| 20                | 17.55   | 82.70   | 40.33   | 28  | 3.94                     | 24.42   | 11.29   | 28  | 0.00               | 0.00    | 0.00  | 28  |
| 21                | 18.00   | 89.70   | 43.55   | 28  | 4.37                     | 24.21   | 11.87   | 28  | 0.00               | 0.00    | 0.00  | 28  |
| 22                | 18.14   | 89.20   | 47.13   | 28  | 5.64                     | 29.82   | 12.22   | 28  | 0.00               | 0.00    | 0.00  | 28  |
| 23                | 18.72   | 89.90   | 49.95   | 28  | 6.22                     | 33.68   | 12.76   | 28  | 0.00               | 0.00    | 0.00  | 28  |
| 24                | 19.86   | 90.40   | 51.71   | 28  | 8.83                     | 33.14   | 13.01   | 28  | 0.00               | 0.00    | 0.00  | 28  |
| 14.81             | 96.30   | 43.74   | 671     |     | 1.49                     | 37.85   | 12.76   | 671 | 0.00               | 0.00    | 0.00  | 672 |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: MET1

Period: 2/ 1/91 thru 2/28/91

Month and year of record: FEBRUARY, 91

| AIR TEMPERATURE 2 METERS (F) |         |         |         |     | TEMPERATURE DIFFERENCE (F) |         |         |     | SIGMA THETA (DEGREES) |         |         |     |
|------------------------------|---------|---------|---------|-----|----------------------------|---------|---------|-----|-----------------------|---------|---------|-----|
| HR                           | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM                    | MAXIMUM | AVERAGE | OBS | MINIMUM               | MAXIMUM | AVERAGE | OBS |
| 1                            | 19.95   | 44.46   | 31.24   | 28  | 0.56                       | 7.94    | 3.43    | 28  | 2.84                  | 32.66   | 8.11    | 28  |
| 2                            | 16.89   | 41.99   | 30.35   | 28  | 1.40                       | 6.36    | 3.34    | 28  | 3.26                  | 39.04   | 8.90    | 28  |
| 3                            | 14.61   | 40.95   | 29.60   | 28  | 0.94                       | 12.03   | 3.60    | 28  | 2.67                  | 20.03   | 8.23    | 28  |
| 4                            | 13.47   | 41.66   | 28.74   | 28  | 1.31                       | 6.30    | 3.63    | 28  | 2.71                  | 31.56   | 10.44   | 28  |
| 5                            | 13.08   | 41.61   | 28.43   | 28  | 1.41                       | 10.60   | 3.92    | 28  | 2.81                  | 48.19   | 8.56    | 28  |
| 6                            | 14.72   | 42.44   | 28.38   | 28  | 0.90                       | 9.90    | 3.64    | 28  | 3.28                  | 46.99   | 8.32    | 28  |
| 7                            | 17.91   | 42.45   | 28.26   | 28  | 0.44                       | 7.90    | 3.29    | 28  | 2.80                  | 33.47   | 6.91    | 28  |
| 8                            | 21.67   | 45.11   | 29.89   | 28  | -0.08                      | 4.32    | 1.96    | 28  | 3.52                  | 23.43   | 8.48    | 28  |
| 9                            | 24.13   | 50.03   | 35.04   | 28  | -0.42                      | 3.12    | 0.27    | 28  | 4.90                  | 34.61   | 12.11   | 28  |
| 10                           | 25.63   | 53.46   | 40.06   | 28  | -0.78                      | 1.51    | -0.29   | 28  | 5.82                  | 47.91   | 14.75   | 28  |
| 11                           | 28.22   | 56.29   | 44.02   | 28  | -1.09                      | 0.70    | -0.51   | 28  | 4.84                  | 51.26   | 19.54   | 28  |
| 12                           | 27.95   | 57.86   | 46.70   | 27  | -1.43                      | 0.90    | -0.60   | 27  | 5.88                  | 59.85   | 21.84   | 28  |
| 13                           | 27.16   | 58.72   | 48.80   | 28  | -1.63                      | 1.29    | -0.63   | 28  | 5.32                  | 42.55   | 22.14   | 28  |
| 14                           | 26.33   | 59.60   | 49.90   | 28  | -1.37                      | 1.28    | -0.61   | 28  | 9.77                  | 49.57   | 25.26   | 28  |
| 15                           | 25.61   | 60.85   | 50.19   | 28  | -1.36                      | 2.10    | -0.46   | 28  | 7.30                  | 50.81   | 19.80   | 28  |
| 16                           | 25.90   | 62.87   | 49.76   | 28  | -1.23                      | 1.82    | -0.24   | 28  | 6.76                  | 36.04   | 16.03   | 28  |
| 17                           | 26.25   | 62.68   | 48.01   | 28  | -0.37                      | 2.35    | 0.42    | 28  | 4.90                  | 41.37   | 13.78   | 28  |
| 18                           | 25.78   | 54.16   | 44.02   | 28  | -0.01                      | 4.71    | 1.99    | 28  | 2.61                  | 39.75   | 11.92   | 28  |
| 19                           | 24.64   | 50.15   | 40.13   | 28  | 0.13                       | 11.21   | 3.49    | 28  | 2.18                  | 33.41   | 13.30   | 28  |
| 20                           | 24.00   | 50.87   | 38.49   | 28  | 0.19                       | 8.37    | 3.38    | 28  | 3.20                  | 39.32   | 15.54   | 28  |
| 21                           | 23.95   | 47.46   | 36.22   | 28  | 0.33                       | 10.40   | 3.96    | 28  | 3.35                  | 43.81   | 13.74   | 28  |
| 22                           | 22.83   | 48.79   | 34.46   | 28  | 0.31                       | 7.63    | 4.07    | 28  | 2.02                  | 38.48   | 10.94   | 28  |
| 23                           | 23.04   | 48.21   | 33.37   | 28  | 1.01                       | 6.84    | 3.18    | 28  | 3.27                  | 23.07   | 8.22    | 28  |
| 24                           | 23.24   | 46.94   | 32.10   | 28  | 0.16                       | 9.42    | 3.24    | 28  | 2.36                  | 26.46   | 8.64    | 28  |
| 13.08                        | 62.87   | 37.74   | 671     |     | -1.63                      | 12.03   | 1.98    | 671 | 2.02                  | 59.85   | 13.15   | 672 |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: MET1

Period: 2/ 1/91 thru 2/28/91

Month and year of record: FEBRUARY, 91

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P-G STABILITY CLASSIFICATION

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| HR | MINIMUM | MAXIMUM | AVERAGE | OBS |
|----|---------|---------|---------|-----|
| 1  | 1.00    | 4.00    | 3.71    | 28  |
| 2  | 1.00    | 4.00    | 3.68    | 28  |
| 3  | 2.00    | 4.00    | 3.68    | 28  |
| 4  | 1.00    | 4.00    | 3.36    | 28  |
| 5  | 1.00    | 4.00    | 3.79    | 28  |
| 6  | 1.00    | 4.00    | 3.79    | 28  |
| 7  | 1.00    | 4.00    | 3.86    | 28  |
| 8  | 2.00    | 6.00    | 4.00    | 28  |
| 9  | 4.00    | 6.00    | 4.64    | 28  |
| 10 | 4.00    | 6.00    | 4.50    | 28  |
| 11 | 4.00    | 6.00    | 4.86    | 28  |
| 12 | 4.00    | 6.00    | 4.93    | 27  |
| 13 | 4.00    | 6.00    | 4.86    | 28  |
| 14 | 4.00    | 6.00    | 4.79    | 28  |
| 15 | 4.00    | 6.00    | 4.57    | 28  |
| 16 | 4.00    | 6.00    | 4.39    | 28  |
| 17 | 4.00    | 6.00    | 4.79    | 28  |
| 18 | 4.00    | 6.00    | 4.79    | 28  |
| 19 | 4.00    | 6.00    | 4.82    | 28  |
| 20 | 4.00    | 6.00    | 4.71    | 28  |
| 21 | 4.00    | 6.00    | 4.71    | 28  |
| 22 | 4.00    | 6.00    | 4.68    | 28  |
| 23 | 4.00    | 6.00    | 4.54    | 28  |
| 24 | 4.00    | 6.00    | 4.57    | 28  |

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|      |      |      |     |
|------|------|------|-----|
| 1.00 | 6.00 | 4.37 | 671 |
|------|------|------|-----|

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WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: MET1

Period: 3/ 1/91 thru 3/31/91

Month and year of record: MARCH, 91

| WIND SPEED (MPH) |         |         |         |     | WIND DIRECTION (DEG) |         |         |     | AIR TEMPERATURE (F) |         |         |     |
|------------------|---------|---------|---------|-----|----------------------|---------|---------|-----|---------------------|---------|---------|-----|
| HR               | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM              | MAXIMUM | AVERAGE | OBS | MINIMUM             | MAXIMUM | AVERAGE | OBS |
| 1                | 2.71    | 23.31   | 9.98    | 31  | 12.90                | 355.80  | 215.13  | 31  | 23.55               | 56.38   | 37.68   | 31  |
| 2                | 3.19    | 25.30   | 9.90    | 31  | 3.59                 | 344.70  | 212.30  | 31  | 22.60               | 56.31   | 37.37   | 31  |
| 3                | 3.01    | 25.14   | 10.84   | 31  | 3.52                 | 332.10  | 220.47  | 31  | 22.11               | 55.12   | 36.71   | 31  |
| 4                | 1.48    | 25.14   | 10.49   | 31  | 32.16                | 353.90  | 231.37  | 31  | 22.12               | 54.05   | 36.42   | 31  |
| 5                | 2.80    | 23.05   | 9.91    | 31  | 0.03                 | 358.70  | 248.55  | 31  | 21.92               | 53.33   | 35.89   | 31  |
| 6                | 2.76    | 20.03   | 8.85    | 31  | 7.04                 | 358.10  | 233.20  | 31  | 21.41               | 53.05   | 35.14   | 31  |
| 7                | 2.92    | 20.75   | 8.17    | 31  | 24.10                | 316.70  | 202.27  | 31  | 20.41               | 53.36   | 34.85   | 31  |
| 8                | 1.97    | 20.68   | 8.79    | 30  | 20.32                | 323.40  | 212.57  | 30  | 20.07               | 54.20   | 37.13   | 31  |
| 9                | 1.98    | 21.73   | 9.05    | 30  | 2.90                 | 355.00  | 234.52  | 30  | 21.28               | 56.59   | 41.20   | 31  |
| 10               | 3.01    | 26.10   | 9.21    | 30  | 2.50                 | 355.30  | 200.67  | 30  | 24.86               | 58.32   | 44.06   | 31  |
| 11               | 2.64    | 23.84   | 10.25   | 30  | 5.34                 | 350.70  | 278.85  | 30  | 30.51               | 61.22   | 47.07   | 31  |
| 12               | 4.38    | 22.60   | 11.27   | 30  | 0.92                 | 350.20  | 339.09  | 30  | 32.28               | 64.79   | 49.26   | 31  |
| 13               | 4.81    | 28.74   | 11.94   | 31  | 6.26                 | 356.00  | 311.78  | 31  | 33.81               | 66.52   | 50.54   | 31  |
| 14               | 4.45    | 29.59   | 13.15   | 31  | 8.20                 | 353.30  | 311.90  | 31  | 33.18               | 67.59   | 51.37   | 31  |
| 15               | 3.95    | 32.53   | 13.54   | 31  | 2.55                 | 327.90  | 325.60  | 31  | 34.63               | 68.46   | 52.00   | 31  |
| 16               | 4.80    | 32.11   | 13.56   | 31  | 0.44                 | 352.20  | 9.90    | 31  | 35.08               | 68.38   | 51.80   | 31  |
| 17               | 4.08    | 26.50   | 14.17   | 31  | 9.33                 | 346.50  | 14.37   | 31  | 35.94               | 66.46   | 51.19   | 31  |
| 18               | 3.35    | 25.69   | 13.59   | 31  | 14.05                | 356.20  | 59.45   | 31  | 33.06               | 64.71   | 49.04   | 31  |
| 19               | 4.30    | 28.82   | 12.10   | 31  | 4.19                 | 303.40  | 111.54  | 31  | 31.30               | 62.54   | 45.38   | 31  |
| 20               | 3.39    | 25.88   | 10.98   | 31  | 4.57                 | 360.00  | 158.25  | 31  | 30.31               | 59.79   | 42.82   | 31  |
| 21               | 3.04    | 20.74   | 10.40   | 31  | 1.42                 | 347.60  | 191.29  | 31  | 28.07               | 60.23   | 41.31   | 31  |
| 22               | 2.00    | 15.97   | 9.01    | 31  | 13.17                | 352.70  | 191.31  | 31  | 26.85               | 57.89   | 40.57   | 31  |
| 23               | 3.42    | 24.26   | 9.19    | 31  | 2.57                 | 352.30  | 204.90  | 31  | 25.66               | 57.51   | 39.81   | 31  |
| 24               | 3.83    | 20.44   | 10.23   | 31  | 11.94                | 331.10  | 211.82  | 31  | 24.55               | 57.28   | 38.66   | 31  |
|                  | 1.48    | 32.53   | 10.78   | 739 | 0.03                 | 360.00  | 225.89  | 1   | 20.07               | 68.46   | 42.80   | 744 |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: MET1

Period: 3/ 1/91 thru 3/31/91

Month and year of record: MARCH, 91

| RELATIVE HUMIDITY |         |         |         |     | MAXIMUM WIND SPEED (MPH) |         |         |     | PRECIPITATION (IN) |         |       |     |
|-------------------|---------|---------|---------|-----|--------------------------|---------|---------|-----|--------------------|---------|-------|-----|
| HR                | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM                  | MAXIMUM | AVERAGE | OBS | MINIMUM            | MAXIMUM | TOTAL | OBS |
| 1                 | 17.71   | 101.80  | 51.69   | 31  | 4.84                     | 34.81   | 15.63   | 31  | 0.00               | 0.00    | 0.00  | 31  |
| 2                 | 18.15   | 101.90  | 51.84   | 31  | 6.10                     | 37.15   | 15.84   | 31  | 0.00               | 0.00    | 0.00  | 31  |
| 3                 | 18.27   | 101.90  | 52.29   | 31  | 5.95                     | 39.28   | 17.48   | 31  | 0.00               | 0.00    | 0.00  | 31  |
| 4                 | 18.22   | 101.00  | 53.14   | 31  | 3.19                     | 37.79   | 16.18   | 31  | 0.00               | 0.01    | 0.01  | 31  |
| 5                 | 18.37   | 101.00  | 53.77   | 31  | 5.12                     | 45.55   | 15.90   | 31  | 0.00               | 0.00    | 0.00  | 31  |
| 6                 | 18.76   | 101.60  | 54.65   | 31  | 5.19                     | 34.15   | 13.79   | 31  | 0.00               | 0.00    | 0.00  | 31  |
| 7                 | 18.78   | 101.40  | 55.45   | 31  | 4.37                     | 31.16   | 13.61   | 31  | 0.00               | 0.00    | 0.00  | 31  |
| 8                 | 18.90   | 99.30   | 53.30   | 31  | 3.83                     | 34.25   | 14.27   | 30  | 0.00               | 0.00    | 0.00  | 31  |
| 9                 | 17.55   | 98.00   | 46.68   | 31  | 5.80                     | 33.31   | 14.91   | 30  | 0.00               | 0.00    | 0.00  | 31  |
| 10                | 16.27   | 96.60   | 41.96   | 31  | 6.30                     | 37.44   | 16.19   | 30  | 0.00               | 0.05    | 0.05  | 31  |
| 11                | 15.49   | 92.80   | 35.86   | 31  | 6.52                     | 34.14   | 18.92   | 30  | 0.00               | 0.00    | 0.00  | 31  |
| 12                | 14.63   | 89.60   | 30.61   | 31  | 10.15                    | 36.57   | 21.64   | 30  | 0.00               | 0.00    | 0.00  | 31  |
| 13                | 14.25   | 96.80   | 29.06   | 31  | 10.09                    | 40.10   | 22.82   | 31  | 0.00               | 0.00    | 0.00  | 31  |
| 14                | 14.00   | 100.60  | 28.16   | 31  | 8.57                     | 43.71   | 24.01   | 31  | 0.00               | 0.01    | 0.01  | 31  |
| 15                | 13.81   | 98.60   | 27.29   | 31  | 9.35                     | 45.03   | 23.61   | 31  | 0.00               | 0.03    | 0.03  | 31  |
| 16                | 13.80   | 98.80   | 26.65   | 31  | 11.55                    | 44.40   | 22.58   | 31  | 0.00               | 0.00    | 0.00  | 31  |
| 17                | 14.18   | 93.70   | 26.38   | 31  | 7.53                     | 40.57   | 22.57   | 31  | 0.00               | 0.00    | 0.00  | 31  |
| 18                | 14.53   | 95.20   | 28.47   | 31  | 5.99                     | 42.84   | 23.10   | 31  | 0.00               | 0.00    | 0.00  | 31  |
| 19                | 15.40   | 96.60   | 33.07   | 31  | 6.92                     | 44.77   | 20.01   | 31  | 0.00               | 0.00    | 0.00  | 31  |
| 20                | 15.89   | 98.60   | 38.76   | 31  | 5.55                     | 43.97   | 17.42   | 31  | 0.00               | 0.02    | 0.02  | 31  |
| 21                | 16.29   | 99.50   | 42.43   | 31  | 4.86                     | 35.85   | 16.91   | 31  | 0.00               | 0.01    | 0.01  | 31  |
| 22                | 16.75   | 100.30  | 44.84   | 31  | 3.87                     | 25.94   | 14.45   | 31  | 0.00               | 0.07    | 0.07  | 31  |
| 23                | 16.58   | 101.60  | 45.95   | 31  | 6.37                     | 31.79   | 14.15   | 31  | 0.00               | 0.05    | 0.05  | 31  |
| 24                | 17.26   | 101.70  | 47.82   | 31  | 5.30                     | 42.26   | 15.66   | 31  | 0.00               | 0.02    | 0.02  | 31  |
|                   | 13.80   | 101.90  | 41.67   | 744 | 3.19                     | 45.55   | 17.99   | 739 | 0.00               | 0.07    | 0.00  | 744 |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: MET1

Period: 3/ 1/91 thru 3/31/91

Month and year of record: MARCH, 91

| AIR TEMPERATURE 2 METERS (F) |         |         |         |     | TEMPERATURE DIFFERENCE (F) |         |         |     | SIGMA THETA (DEGREES) |         |         |     |
|------------------------------|---------|---------|---------|-----|----------------------------|---------|---------|-----|-----------------------|---------|---------|-----|
| HR                           | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM                    | MAXIMUM | AVERAGE | OBS | MINIMUM               | MAXIMUM | AVERAGE | OBS |
| 1                            | 23.23   | 55.22   | 34.90   | 31  | -0.28                      | 6.53    | 2.44    | 31  | 3.10                  | 40.91   | 10.50   | 31  |
| 2                            | 22.23   | 55.54   | 34.74   | 31  | -0.25                      | 6.86    | 2.33    | 31  | 4.02                  | 29.75   | 12.51   | 31  |
| 3                            | 21.78   | 54.15   | 34.38   | 31  | -0.26                      | 4.55    | 2.02    | 31  | 3.45                  | 30.11   | 11.50   | 31  |
| 4                            | 21.56   | 53.06   | 34.10   | 31  | -0.21                      | 6.78    | 2.03    | 31  | 3.27                  | 34.80   | 11.33   | 31  |
| 5                            | 21.47   | 52.41   | 33.69   | 31  | -0.15                      | 5.56    | 1.86    | 31  | 3.13                  | 47.40   | 12.16   | 31  |
| 6                            | 20.91   | 51.55   | 32.51   | 31  | -0.16                      | 6.28    | 2.29    | 31  | 3.20                  | 39.16   | 12.98   | 31  |
| 7                            | 19.96   | 52.08   | 32.36   | 31  | -0.21                      | 7.14    | 2.10    | 31  | 3.98                  | 37.09   | 14.10   | 31  |
| 8                            | 19.69   | 53.79   | 36.51   | 31  | -0.37                      | 2.98    | 0.28    | 31  | 5.70                  | 99.35   | 15.42   | 31  |
| 9                            | 20.95   | 56.15   | 41.15   | 31  | -1.02                      | 0.08    | -0.44   | 31  | 6.48                  | 114.60  | 22.35   | 31  |
| 10                           | 24.15   | 58.46   | 44.25   | 31  | -1.40                      | -0.05   | -0.69   | 31  | 8.24                  | 114.60  | 24.96   | 30  |
| 11                           | 29.21   | 61.68   | 47.50   | 31  | -1.68                      | -0.42   | -0.97   | 31  | 7.50                  | 114.60  | 28.33   | 31  |
| 12                           | 32.14   | 65.67   | 49.86   | 31  | -1.89                      | -0.32   | -1.13   | 31  | 9.21                  | 114.60  | 28.10   | 31  |
| 13                           | 33.71   | 67.48   | 51.20   | 31  | -1.93                      | -0.41   | -1.16   | 31  | 9.69                  | 72.18   | 26.03   | 31  |
| 14                           | 33.02   | 68.58   | 52.04   | 31  | -1.80                      | -0.23   | -1.13   | 31  | 7.02                  | 56.70   | 24.38   | 31  |
| 15                           | 34.77   | 69.52   | 52.55   | 31  | -1.77                      | 0.13    | -1.00   | 31  | 7.51                  | 42.89   | 20.75   | 31  |
| 16                           | 35.06   | 69.08   | 52.13   | 31  | -1.22                      | -0.17   | -0.73   | 31  | 6.70                  | 40.85   | 19.16   | 31  |
| 17                           | 35.74   | 66.56   | 51.14   | 31  | -0.67                      | 0.31    | -0.32   | 31  | 6.25                  | 33.28   | 13.85   | 31  |
| 18                           | 32.53   | 64.38   | 48.40   | 31  | 0.02                       | 1.67    | 0.32    | 31  | 5.97                  | 38.97   | 13.15   | 31  |
| 19                           | 29.95   | 61.39   | 43.63   | 31  | -0.17                      | 3.67    | 1.41    | 31  | 4.61                  | 36.97   | 9.56    | 31  |
| 20                           | 28.84   | 57.61   | 40.60   | 31  | -0.06                      | 5.71    | 1.89    | 31  | 4.34                  | 43.89   | 11.65   | 31  |
| 21                           | 27.39   | 59.28   | 38.91   | 31  | -0.06                      | 6.51    | 2.11    | 31  | 4.56                  | 42.28   | 12.43   | 31  |
| 22                           | 26.25   | 56.33   | 38.07   | 31  | -0.15                      | 6.40    | 2.22    | 31  | 4.29                  | 43.02   | 12.35   | 31  |
| 23                           | 24.26   | 56.07   | 36.83   | 31  | -0.23                      | 7.63    | 2.68    | 31  | 4.00                  | 40.59   | 10.73   | 31  |
| 24                           | 21.19   | 56.21   | 35.68   | 31  | -0.25                      | 10.59   | 2.67    | 31  | 2.86                  | 30.22   | 9.87    | 31  |
| 19.69                        | 69.52   | 41.55   | 744     |     | -1.93                      | 10.59   | 0.88    | 744 | 2.86                  | 114.60  | 16.16   | 743 |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: MET1

Period: 3/ 1/91 thru 3/31/91

Month and year of record: MARCH, 91

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P-G STABILITY CLASSIFICATION

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| HR | MINIMUM | MAXIMUM | AVERAGE | OBS |
|----|---------|---------|---------|-----|
| 1  | 1.00    | 4.00    | 3.71    | 31  |
| 2  | 1.00    | 4.00    | 3.35    | 31  |
| 3  | 1.00    | 4.00    | 3.48    | 31  |
| 4  | 1.00    | 4.00    | 3.48    | 31  |
| 5  | 1.00    | 4.00    | 3.45    | 31  |
| 6  | 1.00    | 4.00    | 3.32    | 31  |
| 7  | 1.00    | 4.00    | 3.10    | 31  |
| 8  | 2.00    | 4.00    | 3.43    | 30  |
| 9  | 4.00    | 6.00    | 4.73    | 30  |
| 10 | 4.00    | 6.00    | 4.87    | 30  |
| 11 | 4.00    | 6.00    | 4.77    | 30  |
| 12 | 4.00    | 6.00    | 4.57    | 30  |
| 13 | 4.00    | 6.00    | 4.55    | 31  |
| 14 | 4.00    | 6.00    | 4.42    | 31  |
| 15 | 4.00    | 6.00    | 4.35    | 31  |
| 16 | 4.00    | 6.00    | 4.29    | 31  |
| 17 | 4.00    | 6.00    | 4.39    | 31  |
| 18 | 4.00    | 6.00    | 4.19    | 31  |
| 19 | 4.00    | 6.00    | 4.35    | 31  |
| 20 | 4.00    | 6.00    | 4.42    | 31  |
| 21 | 4.00    | 6.00    | 4.42    | 31  |
| 22 | 4.00    | 6.00    | 4.55    | 31  |
| 23 | 4.00    | 6.00    | 4.52    | 31  |
| 24 | 4.00    | 6.00    | 4.52    | 31  |

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|      |      |      |     |
|------|------|------|-----|
| 1.00 | 6.00 | 4.13 | 739 |
|------|------|------|-----|

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WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: MET1

Period: 4/ 1/91 thru 4/30/91

Month and year of record: APRIL, 91

| WIND SPEED (MPH) |         |         |         |     | WIND DIRECTION (DEG) |         |         |     | AIR TEMPERATURE (F) |         |         |     |
|------------------|---------|---------|---------|-----|----------------------|---------|---------|-----|---------------------|---------|---------|-----|
| HR               | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM              | MAXIMUM | AVERAGE | OBS | MINIMUM             | MAXIMUM | AVERAGE | OBS |
| 1                | 3.66    | 18.06   | 8.52    | 30  | 18.97                | 359.60  | 196.30  | 30  | 27.43               | 59.40   | 42.47   | 30  |
| 2                | 2.14    | 17.95   | 8.20    | 30  | 28.06                | 356.00  | 232.90  | 30  | 26.25               | 60.36   | 41.51   | 30  |
| 3                | 3.45    | 15.16   | 7.56    | 30  | 14.71                | 349.30  | 221.09  | 30  | 25.11               | 61.59   | 40.81   | 30  |
| 4                | 2.59    | 17.04   | 7.11    | 30  | 4.54                 | 357.60  | 242.80  | 30  | 22.03               | 58.59   | 39.75   | 30  |
| 5                | 2.07    | 15.45   | 6.78    | 30  | 4.20                 | 359.00  | 243.62  | 30  | 23.51               | 55.70   | 38.79   | 30  |
| 6                | 2.25    | 14.55   | 7.52    | 29  | 4.12                 | 351.90  | 226.90  | 29  | 21.20               | 53.72   | 38.14   | 30  |
| 7                | 2.95    | 14.70   | 7.46    | 29  | 11.40                | 354.60  | 235.40  | 29  | 21.99               | 52.91   | 38.90   | 30  |
| 8                | 2.58    | 23.26   | 8.24    | 29  | 0.32                 | 345.90  | 269.89  | 29  | 24.59               | 55.27   | 41.62   | 30  |
| 9                | 2.58    | 16.04   | 7.92    | 30  | 3.44                 | 345.10  | 238.29  | 30  | 28.58               | 64.36   | 44.87   | 30  |
| 10               | 2.59    | 19.30   | 7.72    | 30  | 1.25                 | 354.20  | 99.55   | 30  | 31.97               | 71.00   | 48.01   | 30  |
| 11               | 2.92    | 19.16   | 8.15    | 30  | 7.62                 | 354.00  | 91.49   | 30  | 33.01               | 74.50   | 50.68   | 30  |
| 12               | 4.39    | 20.00   | 8.94    | 30  | 7.36                 | 358.30  | 59.26   | 30  | 32.33               | 77.10   | 52.46   | 30  |
| 13               | 4.11    | 21.34   | 9.82    | 30  | 7.23                 | 358.40  | 64.24   | 30  | 33.85               | 78.50   | 53.87   | 30  |
| 14               | 4.58    | 25.14   | 10.78   | 30  | 7.19                 | 354.80  | 35.18   | 30  | 34.89               | 79.40   | 54.54   | 30  |
| 15               | 4.02    | 26.70   | 11.42   | 30  | 13.87                | 357.40  | 26.61   | 30  | 35.49               | 79.50   | 54.90   | 30  |
| 16               | 5.09    | 27.71   | 11.33   | 30  | 10.84                | 358.20  | 41.91   | 30  | 32.20               | 79.40   | 55.07   | 30  |
| 17               | 4.23    | 24.79   | 11.10   | 30  | 14.22                | 353.70  | 29.61   | 30  | 31.75               | 78.50   | 54.92   | 30  |
| 18               | 5.23    | 23.00   | 10.92   | 30  | 1.47                 | 351.40  | 33.25   | 30  | 30.39               | 75.60   | 53.63   | 30  |
| 19               | 3.52    | 17.32   | 10.46   | 30  | 5.01                 | 351.40  | 28.64   | 30  | 29.78               | 73.70   | 51.33   | 30  |
| 20               | 2.85    | 23.94   | 10.29   | 30  | 6.71                 | 350.60  | 325.54  | 30  | 28.39               | 72.70   | 49.11   | 30  |
| 21               | 2.91    | 22.14   | 9.62    | 30  | 7.73                 | 357.90  | 128.72  | 30  | 27.33               | 68.70   | 46.97   | 30  |
| 22               | 3.38    | 25.56   | 9.54    | 30  | 1.33                 | 347.60  | 166.84  | 30  | 27.50               | 64.93   | 45.83   | 30  |
| 23               | 3.01    | 23.42   | 9.35    | 30  | 4.33                 | 337.30  | 175.96  | 30  | 27.21               | 62.24   | 44.11   | 30  |
| 24               | 2.36    | 19.19   | 8.73    | 30  | 20.11                | 344.90  | 185.78  | 30  | 27.57               | 59.76   | 42.73   | 30  |
|                  | 2.07    | 27.71   | 9.07    | 717 | 0.32                 | 359.60  | 163.16  | 1   | 21.20               | 79.50   | 46.88   | 720 |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: MET1

Period: 4/ 1/91 thru 4/30/91

Month and year of record: APRIL, 91

| RELATIVE HUMIDITY |         |         |         |     | MAXIMUM WIND SPEED (MPH) |         |         |     | PRECIPITATION (IN) |         |       |     |
|-------------------|---------|---------|---------|-----|--------------------------|---------|---------|-----|--------------------|---------|-------|-----|
| HR                | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM                  | MAXIMUM | AVERAGE | OBS | MINIMUM            | MAXIMUM | TOTAL | OBS |
| 1                 | 15.79   | 100.90  | 62.12   | 30  | 5.96                     | 25.29   | 12.79   | 30  | 0.00               | 0.13    | 0.17  | 30  |
| 2                 | 15.64   | 101.10  | 64.40   | 30  | 5.87                     | 23.98   | 12.54   | 30  | 0.00               | 0.05    | 0.08  | 30  |
| 3                 | 15.37   | 101.20  | 66.20   | 30  | 5.52                     | 24.25   | 11.67   | 30  | 0.00               | 0.08    | 0.18  | 30  |
| 4                 | 15.98   | 101.20  | 67.18   | 30  | 4.59                     | 30.45   | 11.43   | 30  | 0.00               | 0.08    | 0.20  | 30  |
| 5                 | 16.83   | 101.30  | 68.95   | 30  | 3.77                     | 26.70   | 10.45   | 30  | 0.00               | 0.04    | 0.08  | 30  |
| 6                 | 17.53   | 101.30  | 70.07   | 30  | 6.13                     | 27.96   | 11.72   | 29  | 0.00               | 0.07    | 0.11  | 30  |
| 7                 | 17.91   | 101.30  | 69.84   | 30  | 4.66                     | 32.17   | 12.13   | 29  | 0.00               | 0.02    | 0.04  | 30  |
| 8                 | 17.64   | 101.50  | 64.89   | 30  | 5.07                     | 33.51   | 13.25   | 29  | 0.00               | 0.00    | 0.00  | 30  |
| 9                 | 15.27   | 101.50  | 57.27   | 30  | 4.66                     | 28.58   | 12.73   | 30  | 0.00               | 0.01    | 0.01  | 30  |
| 10                | 13.49   | 101.50  | 50.49   | 30  | 5.79                     | 32.69   | 14.19   | 30  | 0.00               | 0.00    | 0.00  | 30  |
| 11                | 12.67   | 101.40  | 45.36   | 30  | 6.13                     | 32.40   | 15.17   | 30  | 0.00               | 0.00    | 0.00  | 30  |
| 12                | 12.09   | 100.70  | 42.47   | 30  | 6.22                     | 41.24   | 16.78   | 30  | 0.00               | 0.00    | 0.00  | 30  |
| 13                | 11.78   | 98.90   | 40.06   | 30  | 9.79                     | 35.75   | 18.92   | 30  | 0.00               | 0.00    | 0.00  | 30  |
| 14                | 11.59   | 97.20   | 37.98   | 30  | 9.76                     | 36.78   | 20.67   | 30  | 0.00               | 0.00    | 0.00  | 30  |
| 15                | 11.57   | 94.30   | 37.02   | 30  | 8.29                     | 39.56   | 19.82   | 30  | 0.00               | 0.00    | 0.00  | 30  |
| 16                | 11.62   | 95.20   | 37.02   | 30  | 11.25                    | 40.72   | 19.77   | 30  | 0.00               | 0.01    | 0.01  | 30  |
| 17                | 11.77   | 95.80   | 36.71   | 30  | 8.60                     | 38.17   | 19.89   | 30  | 0.00               | 0.00    | 0.00  | 30  |
| 18                | 12.39   | 95.40   | 38.00   | 30  | 8.40                     | 32.81   | 17.86   | 30  | 0.00               | 0.01    | 0.01  | 30  |
| 19                | 12.77   | 97.30   | 41.75   | 30  | 6.82                     | 29.22   | 16.65   | 30  | 0.00               | 0.06    | 0.06  | 30  |
| 20                | 12.92   | 97.70   | 46.95   | 30  | 5.97                     | 37.48   | 17.10   | 30  | 0.00               | 0.00    | 0.00  | 30  |
| 21                | 13.73   | 98.70   | 52.36   | 30  | 5.02                     | 42.01   | 15.54   | 30  | 0.00               | 0.00    | 0.00  | 30  |
| 22                | 14.51   | 98.60   | 55.20   | 30  | 5.82                     | 37.44   | 15.22   | 30  | 0.00               | 0.00    | 0.00  | 30  |
| 23                | 15.10   | 99.00   | 60.24   | 30  | 5.44                     | 35.31   | 15.01   | 30  | 0.00               | 0.08    | 0.09  | 30  |
| 24                | 15.66   | 100.80  | 62.93   | 30  | 4.72                     | 36.54   | 13.42   | 30  | 0.00               | 0.09    | 0.16  | 30  |
|                   | 11.57   | 101.50  | 53.14   | 720 | 3.77                     | 42.01   | 15.21   | 717 | 0.00               | 0.13    | 0.00  | 720 |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: MET1

Period: 4/ 1/91 thru 4/30/91

Month and year of record: APRIL, 91

| AIR TEMPERATURE 2 METERS (F) |         |         |         |     | TEMPERATURE DIFFERENCE (F) |         |         |     | SIGMA THETA (DEGREES) |         |         |     |
|------------------------------|---------|---------|---------|-----|----------------------------|---------|---------|-----|-----------------------|---------|---------|-----|
| HR                           | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM                    | MAXIMUM | AVERAGE | OBS | MINIMUM               | MAXIMUM | AVERAGE | OBS |
| 1                            | 25.94   | 54.77   | 40.09   | 30  | -0.17                      | 8.09    | 1.95    | 30  | 3.56                  | 35.47   | 12.03   | 30  |
| 2                            | 24.77   | 57.66   | 39.35   | 30  | -0.17                      | 4.66    | 1.73    | 30  | 3.04                  | 31.74   | 12.71   | 30  |
| 3                            | 22.13   | 58.00   | 38.60   | 30  | -0.17                      | 3.88    | 1.75    | 30  | 3.27                  | 35.97   | 13.03   | 30  |
| 4                            | 18.36   | 56.33   | 37.41   | 30  | -0.15                      | 4.23    | 1.84    | 30  | 3.79                  | 43.65   | 14.83   | 30  |
| 5                            | 15.92   | 51.10   | 36.18   | 30  | -0.13                      | 7.13    | 2.15    | 30  | 3.10                  | 38.34   | 13.63   | 30  |
| 6                            | 16.21   | 49.27   | 35.77   | 30  | -0.18                      | 5.37    | 1.92    | 30  | 3.59                  | 24.09   | 10.57   | 29  |
| 7                            | 19.96   | 49.38   | 37.63   | 30  | -0.37                      | 4.38    | 0.74    | 30  | 4.67                  | 38.77   | 11.14   | 29  |
| 8                            | 23.18   | 55.04   | 41.31   | 30  | -0.82                      | 2.39    | -0.22   | 30  | 5.95                  | 28.05   | 14.07   | 29  |
| 9                            | 27.80   | 65.35   | 44.94   | 30  | -1.21                      | 0.16    | -0.59   | 30  | 6.31                  | 3499.50 | 134.07  | 30  |
| 10                           | 30.85   | 71.80   | 48.10   | 30  | -1.40                      | 0.10    | -0.75   | 30  | 9.92                  | 53.01   | 23.12   | 30  |
| 11                           | 31.71   | 75.30   | 50.82   | 30  | -1.65                      | 0.41    | -0.87   | 30  | 6.82                  | 50.66   | 25.87   | 30  |
| 12                           | 31.22   | 78.00   | 52.73   | 30  | -1.79                      | 0.77    | -0.96   | 30  | 5.40                  | 43.24   | 24.84   | 30  |
| 13                           | 33.14   | 79.00   | 54.15   | 30  | -1.79                      | 0.07    | -0.98   | 30  | 10.27                 | 57.98   | 26.57   | 30  |
| 14                           | 33.22   | 79.90   | 54.83   | 30  | -1.73                      | -0.27   | -0.94   | 30  | 9.53                  | 55.11   | 25.93   | 30  |
| 15                           | 32.94   | 80.30   | 55.17   | 30  | -1.50                      | -0.43   | -0.91   | 30  | 9.73                  | 53.16   | 23.31   | 30  |
| 16                           | 31.18   | 79.50   | 55.27   | 30  | -1.28                      | -0.33   | -0.74   | 30  | 7.87                  | 42.31   | 20.64   | 30  |
| 17                           | 30.76   | 78.70   | 54.89   | 30  | -0.91                      | -0.05   | -0.43   | 30  | 7.08                  | 35.27   | 17.40   | 30  |
| 18                           | 29.89   | 72.00   | 53.05   | 30  | -0.46                      | 3.29    | 0.21    | 30  | 4.89                  | 34.14   | 13.70   | 30  |
| 19                           | 29.40   | 69.15   | 49.80   | 30  | -0.26                      | 4.63    | 1.14    | 30  | 4.94                  | 37.54   | 10.76   | 30  |
| 20                           | 27.97   | 67.85   | 47.08   | 30  | -0.02                      | 5.72    | 1.65    | 30  | 3.59                  | 27.76   | 11.64   | 30  |
| 21                           | 25.91   | 65.82   | 44.83   | 30  | -0.10                      | 7.64    | 1.73    | 30  | 3.45                  | 32.99   | 11.57   | 30  |
| 22                           | 26.70   | 62.33   | 43.70   | 30  | -0.13                      | 6.41    | 1.73    | 30  | 4.13                  | 34.67   | 11.48   | 30  |
| 23                           | 26.57   | 58.32   | 41.89   | 30  | -0.09                      | 6.71    | 1.75    | 30  | 3.81                  | 33.98   | 12.21   | 30  |
| 24                           | 26.84   | 56.39   | 40.43   | 30  | -0.10                      | 4.94    | 1.83    | 30  | 4.71                  | 26.44   | 10.98   | 30  |
| 15.92                        | 80.30   | 45.75   | 720     |     | -1.79                      | 8.09    | 0.61    | 720 | 3.04                  | 3499.50 | 21.13   | 717 |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: MET1

Period: 4/ 1/91 thru 4/30/91

Month and year of record: APRIL, 91

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P-G STABILITY CLASSIFICATION

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| HR    | MINIMUM | MAXIMUM | AVERAGE | OBS |
|-------|---------|---------|---------|-----|
| 1     | 1.00    | 4.00    | 3.27    | 30  |
| 2     | 1.00    | 4.00    | 3.27    | 30  |
| 3     | 1.00    | 4.00    | 3.13    | 30  |
| 4     | 1.00    | 4.00    | 2.93    | 30  |
| 5     | 1.00    | 4.00    | 3.13    | 30  |
| 6     | 1.00    | 4.00    | 3.55    | 29  |
| 7     | 1.00    | 4.00    | 3.59    | 29  |
| 8     | 1.00    | 4.00    | 3.17    | 29  |
| 9     | 4.00    | 6.00    | 4.62    | 29  |
| 10    | 4.00    | 6.00    | 4.70    | 30  |
| 11    | 4.00    | 6.00    | 5.00    | 30  |
| 12    | 4.00    | 6.00    | 4.73    | 30  |
| 13    | 4.00    | 6.00    | 4.87    | 30  |
| 14    | 4.00    | 6.00    | 4.57    | 30  |
| 15    | 4.00    | 6.00    | 4.50    | 30  |
| 16    | 4.00    | 6.00    | 4.57    | 30  |
| 17    | 4.00    | 6.00    | 4.40    | 30  |
| 18    | 4.00    | 6.00    | 4.20    | 30  |
| 19    | 4.00    | 5.00    | 4.37    | 30  |
| 20    | 4.00    | 6.00    | 4.40    | 30  |
| 21    | 4.00    | 6.00    | 4.47    | 30  |
| 22    | 4.00    | 6.00    | 4.37    | 30  |
| 23    | 4.00    | 6.00    | 4.40    | 30  |
| 24    | 4.00    | 6.00    | 4.47    | 30  |
| <hr/> |         |         |         |     |
|       | 1.00    | 6.00    | 4.11    | 716 |

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WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: MET1

Period: 5/ 1/91 thru 5/31/91

Month and year of record: MAY, 91

| WIND SPEED (MPH) |         |         |         |     | WIND DIRECTION (DEG) |         |         |     | AIR TEMPERATURE (F) |         |         |     |
|------------------|---------|---------|---------|-----|----------------------|---------|---------|-----|---------------------|---------|---------|-----|
| HR               | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM              | MAXIMUM | AVERAGE | OBS | MINIMUM             | MAXIMUM | AVERAGE | OBS |
| 1                | 2.21    | 27.06   | 10.45   | 22  | 3.24                 | 337.10  | 173.25  | 22  | 36.10               | 67.73   | 53.51   | 31  |
| 2                | 3.25    | 26.48   | 9.70    | 22  | 2.99                 | 306.90  | 173.26  | 22  | 36.06               | 66.70   | 52.42   | 31  |
| 3                | 1.84    | 21.48   | 9.44    | 22  | 1.63                 | 331.60  | 181.24  | 22  | 33.47               | 65.25   | 51.79   | 31  |
| 4                | 1.65    | 17.92   | 8.44    | 22  | 6.99                 | 355.60  | 185.37  | 22  | 33.94               | 63.67   | 51.02   | 31  |
| 5                | 1.45    | 21.46   | 8.07    | 22  | 5.33                 | 338.50  | 193.76  | 22  | 32.50               | 63.51   | 49.93   | 31  |
| 6                | 2.97    | 23.23   | 7.97    | 22  | 13.57                | 332.70  | 169.24  | 22  | 31.29               | 63.96   | 49.96   | 31  |
| 7                | 1.61    | 20.48   | 7.89    | 22  | 4.88                 | 347.00  | 196.35  | 22  | 34.16               | 64.94   | 52.08   | 31  |
| 8                | 1.87    | 24.22   | 9.44    | 22  | 0.77                 | 345.90  | 225.48  | 22  | 37.57               | 69.06   | 55.43   | 31  |
| 9                | 2.82    | 26.07   | 9.54    | 22  | 3.13                 | 357.10  | 222.69  | 22  | 40.99               | 72.00   | 57.89   | 31  |
| 10               | 2.44    | 22.83   | 9.86    | 22  | 3.24                 | 357.70  | 316.56  | 22  | 42.86               | 76.20   | 60.70   | 31  |
| 11               | 2.60    | 23.54   | 10.37   | 22  | 3.38                 | 357.40  | 114.14  | 22  | 45.34               | 79.60   | 63.31   | 31  |
| 12               | 4.75    | 24.51   | 12.09   | 22  | 12.22                | 353.20  | 91.82   | 22  | 44.46               | 82.20   | 65.60   | 31  |
| 13               | 5.19    | 25.85   | 13.87   | 22  | 0.54                 | 328.70  | 129.83  | 22  | 42.10               | 83.80   | 67.16   | 31  |
| 14               | 5.26    | 27.78   | 14.92   | 22  | 30.98                | 358.80  | 136.92  | 22  | 41.40               | 84.80   | 68.12   | 31  |
| 15               | 4.70    | 32.03   | 15.49   | 22  | 4.31                 | 352.20  | 117.68  | 22  | 37.76               | 83.30   | 68.61   | 31  |
| 16               | 5.06    | 32.70   | 14.92   | 22  | 0.65                 | 356.00  | 94.28   | 22  | 38.11               | 83.70   | 68.50   | 31  |
| 17               | 5.00    | 27.52   | 15.18   | 22  | 10.37                | 353.30  | 116.90  | 22  | 38.38               | 83.70   | 68.08   | 31  |
| 18               | 4.66    | 26.60   | 15.18   | 22  | 6.65                 | 355.50  | 98.07   | 22  | 38.60               | 81.30   | 66.77   | 31  |
| 19               | 3.71    | 23.34   | 12.64   | 21  | 3.88                 | 319.90  | 98.97   | 21  | 37.84               | 78.70   | 64.04   | 31  |
| 20               | 4.97    | 26.84   | 13.34   | 21  | 4.99                 | 336.60  | 105.19  | 21  | 37.48               | 76.20   | 60.79   | 31  |
| 21               | 5.22    | 32.91   | 12.91   | 21  | 1.53                 | 359.90  | 109.29  | 21  | 37.10               | 70.90   | 58.79   | 31  |
| 22               | 3.23    | 31.38   | 12.08   | 21  | 9.10                 | 334.20  | 143.38  | 21  | 36.35               | 69.60   | 57.32   | 31  |
| 23               | 4.54    | 31.54   | 12.05   | 21  | 10.96                | 349.20  | 183.99  | 21  | 35.93               | 69.08   | 56.24   | 31  |
| 24               | 3.88    | 30.75   | 10.97   | 21  | 13.28                | 339.40  | 182.93  | 21  | 35.42               | 68.95   | 55.21   | 31  |
|                  | 1.45    | 32.91   | 11.52   | 522 | 0.54                 | 359.90  | 155.49  | 1   | 31.29               | 84.80   | 59.30   | 744 |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: MET1

Period: 5/ 1/91 thru 5/31/91

Month and year of record: MAY, 91

| RELATIVE HUMIDITY |         |         |         |     | MAXIMUM WIND SPEED (MPH) |         |         |     | PRECIPITATION (IN) |         |       |     |
|-------------------|---------|---------|---------|-----|--------------------------|---------|---------|-----|--------------------|---------|-------|-----|
| HR                | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM                  | MAXIMUM | AVERAGE | OBS | MINIMUM            | MAXIMUM | TOTAL | OBS |
| 1                 | 15.86   | 99.20   | 66.95   | 31  | 4.63                     | 39.98   | 16.00   | 22  | 0.00               | 0.00    | 0.00  | 31  |
| 2                 | 19.36   | 99.10   | 68.88   | 31  | 5.20                     | 38.47   | 16.25   | 22  | 0.00               | 0.01    | 0.01  | 31  |
| 3                 | 17.49   | 99.10   | 70.59   | 31  | 3.67                     | 37.58   | 14.44   | 22  | 0.00               | 0.05    | 0.08  | 31  |
| 4                 | 19.17   | 98.90   | 71.63   | 31  | 3.32                     | 29.19   | 13.30   | 22  | 0.00               | 0.00    | 0.00  | 31  |
| 5                 | 21.18   | 98.80   | 73.35   | 31  | 2.70                     | 32.41   | 12.70   | 22  | 0.00               | 0.03    | 0.03  | 31  |
| 6                 | 22.18   | 98.40   | 74.01   | 31  | 4.69                     | 31.75   | 12.69   | 22  | 0.00               | 0.01    | 0.02  | 31  |
| 7                 | 23.30   | 97.90   | 71.18   | 31  | 4.43                     | 32.16   | 13.82   | 22  | 0.00               | 0.06    | 0.06  | 31  |
| 8                 | 16.64   | 97.30   | 63.73   | 31  | 4.64                     | 36.08   | 14.90   | 22  | 0.00               | 0.07    | 0.07  | 31  |
| 9                 | 15.77   | 97.10   | 58.10   | 31  | 5.87                     | 35.48   | 15.61   | 22  | 0.00               | 0.05    | 0.05  | 31  |
| 10                | 12.99   | 96.60   | 51.22   | 31  | 6.12                     | 30.79   | 16.55   | 22  | 0.00               | 0.01    | 0.01  | 31  |
| 11                | 11.95   | 94.40   | 46.17   | 31  | 6.59                     | 33.08   | 19.13   | 22  | 0.00               | 0.00    | 0.00  | 31  |
| 12                | 11.36   | 89.30   | 41.65   | 31  | 10.17                    | 39.41   | 21.50   | 22  | 0.00               | 0.01    | 0.01  | 31  |
| 13                | 11.29   | 95.10   | 37.52   | 31  | 12.35                    | 54.17   | 25.14   | 22  | 0.00               | 0.24    | 0.24  | 31  |
| 14                | 11.08   | 95.60   | 35.32   | 31  | 12.66                    | 41.57   | 25.63   | 22  | 0.00               | 0.47    | 0.61  | 31  |
| 15                | 11.11   | 97.40   | 34.42   | 31  | 12.55                    | 47.84   | 25.89   | 22  | 0.00               | 0.16    | 0.32  | 31  |
| 16                | 11.02   | 98.60   | 34.90   | 31  | 10.25                    | 62.04   | 25.29   | 22  | 0.00               | 0.05    | 0.06  | 31  |
| 17                | 11.00   | 97.80   | 35.35   | 31  | 10.92                    | 45.87   | 26.78   | 22  | 0.00               | 0.09    | 0.10  | 31  |
| 18                | 11.39   | 97.80   | 38.09   | 31  | 8.42                     | 43.44   | 24.89   | 22  | 0.00               | 0.33    | 0.36  | 31  |
| 19                | 11.86   | 98.40   | 43.21   | 31  | 7.86                     | 40.58   | 21.06   | 21  | 0.00               | 0.27    | 0.30  | 31  |
| 20                | 12.32   | 99.00   | 51.85   | 31  | 8.09                     | 48.87   | 21.95   | 21  | 0.00               | 0.18    | 0.19  | 31  |
| 21                | 13.67   | 99.00   | 56.35   | 31  | 9.56                     | 47.94   | 20.22   | 21  | 0.00               | 0.05    | 0.09  | 31  |
| 22                | 14.56   | 98.90   | 59.54   | 31  | 7.09                     | 46.34   | 19.08   | 21  | 0.00               | 0.20    | 0.36  | 31  |
| 23                | 14.76   | 99.20   | 62.64   | 31  | 7.43                     | 46.40   | 19.52   | 21  | 0.00               | 0.05    | 0.15  | 31  |
| 24                | 15.24   | 99.20   | 65.61   | 31  | 6.34                     | 45.70   | 16.73   | 21  | 0.00               | 0.01    | 0.01  | 31  |
| 11.00             | 99.20   | 54.68   | 744     |     | 2.70                     | 62.04   | 19.12   | 522 | 0.00               | 0.47    | 0.00  | 744 |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: MET1

Period: 5/ 1/91 thru 5/31/91

Month and year of record: MAY, 91

| AIR TEMPERATURE 2 METERS (F) |         |         |         |     | TEMPERATURE DIFFERENCE (F) |         |         |     | SIGMA THETA (DEGREES) |         |         |     |
|------------------------------|---------|---------|---------|-----|----------------------------|---------|---------|-----|-----------------------|---------|---------|-----|
| HR                           | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM                    | MAXIMUM | AVERAGE | OBS | MINIMUM               | MAXIMUM | AVERAGE | OBS |
| 1                            | 33.44   | 66.92   | 51.09   | 31  | -0.29                      | 7.13    | 1.96    | 31  | 1.50                  | 26.41   | 9.84    | 23  |
| 2                            | 31.83   | 65.92   | 50.13   | 31  | -0.21                      | 4.75    | 1.81    | 31  | 1.48                  | 35.92   | 12.45   | 23  |
| 3                            | 30.84   | 64.35   | 49.32   | 31  | -0.19                      | 7.58    | 1.99    | 31  | 1.38                  | 29.85   | 9.95    | 23  |
| 4                            | 30.20   | 62.94   | 48.39   | 31  | -0.17                      | 6.23    | 2.19    | 31  | 1.36                  | 6061.60 | 263.30  | 24  |
| 5                            | 28.55   | 62.93   | 47.30   | 31  | -0.17                      | 5.62    | 2.14    | 31  | 1.21                  | 28.60   | 10.09   | 23  |
| 6                            | 29.12   | 63.25   | 48.12   | 31  | -0.19                      | 5.95    | 1.34    | 31  | 0.55                  | 30.50   | 10.71   | 23  |
| 7                            | 33.50   | 64.61   | 51.57   | 31  | -0.71                      | 3.53    | -0.06   | 31  | 1.26                  | 51.13   | 17.62   | 23  |
| 8                            | 37.42   | 69.47   | 55.36   | 31  | -1.23                      | 0.10    | -0.52   | 31  | 7.73                  | 49.31   | 19.24   | 23  |
| 9                            | 41.44   | 72.20   | 58.00   | 31  | -1.40                      | -0.24   | -0.71   | 31  | 9.06                  | 3499.50 | 172.82  | 23  |
| 10                           | 42.78   | 77.00   | 60.97   | 31  | -1.75                      | -0.21   | -0.85   | 31  | 9.92                  | 4949.00 | 237.39  | 23  |
| 11                           | 45.03   | 81.00   | 63.84   | 31  | -1.97                      | 0.09    | -1.04   | 31  | 2.31                  | 106.19  | 28.28   | 24  |
| 12                           | 44.10   | 83.50   | 66.21   | 31  | -1.93                      | 0.16    | -1.07   | 31  | 9.73                  | 50.14   | 23.88   | 23  |
| 13                           | 42.01   | 85.20   | 67.75   | 31  | -1.98                      | 0.19    | -0.99   | 31  | 8.89                  | 3500.40 | 172.55  | 23  |
| 14                           | 41.13   | 86.10   | 68.73   | 31  | -1.93                      | 1.36    | -0.91   | 31  | 8.09                  | 6061.30 | 476.22  | 24  |
| 15                           | 37.33   | 84.10   | 68.91   | 31  | -1.63                      | 1.39    | -0.67   | 31  | 7.47                  | 6061.60 | 270.24  | 24  |
| 16                           | 38.02   | 84.40   | 68.65   | 31  | -1.37                      | 1.29    | -0.51   | 31  | 8.07                  | 4949.00 | 231.19  | 23  |
| 17                           | 38.08   | 83.80   | 67.96   | 31  | -1.12                      | 0.95    | -0.20   | 31  | 2.35                  | 38.97   | 14.07   | 23  |
| 18                           | 38.24   | 81.00   | 66.20   | 31  | -0.35                      | 1.43    | 0.21    | 31  | 5.12                  | 61.17   | 14.19   | 23  |
| 19                           | 37.44   | 77.70   | 62.62   | 31  | -0.35                      | 3.70    | 1.02    | 31  | 2.15                  | 114.60  | 16.98   | 23  |
| 20                           | 37.06   | 74.90   | 59.33   | 31  | -0.27                      | 4.24    | 1.01    | 31  | 1.62                  | 25.89   | 9.46    | 22  |
| 21                           | 36.69   | 69.71   | 56.95   | 31  | -0.21                      | 6.39    | 1.40    | 31  | 2.24                  | 37.07   | 12.24   | 22  |
| 22                           | 35.85   | 68.95   | 55.06   | 31  | -0.23                      | 8.26    | 1.82    | 31  | 2.04                  | 31.30   | 12.07   | 22  |
| 23                           | 35.49   | 68.38   | 53.99   | 31  | -0.25                      | 10.29   | 1.79    | 31  | 5.00                  | 24.37   | 11.32   | 22  |
| 24                           | 35.02   | 68.19   | 52.70   | 31  | -0.28                      | 9.08    | 2.04    | 31  | 3.97                  | 24.65   | 9.91    | 22  |
| 28.55                        | 86.10   | 58.30   | 744     |     | -1.98                      | 10.29   | 0.55    | 744 | 0.55                  | 6061.60 | 88.02   | 551 |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: MET1

Period: 5/ 1/91 thru 5/31/91

Month and year of record: MAY, 91

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P-G STABILITY CLASSIFICATION

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| HR | MINIMUM | MAXIMUM | AVERAGE | OBS |
|----|---------|---------|---------|-----|
| 1  | 1.00    | 4.00    | 3.59    | 22  |
| 2  | 1.00    | 4.00    | 3.27    | 22  |
| 3  | 1.00    | 4.00    | 3.55    | 22  |
| 4  | 1.00    | 4.00    | 3.36    | 22  |
| 5  | 1.00    | 4.00    | 3.59    | 22  |
| 6  | 1.00    | 5.00    | 3.50    | 22  |
| 7  | 1.00    | 4.00    | 2.73    | 22  |
| 8  | 1.00    | 4.00    | 2.86    | 22  |
| 9  | 4.00    | 6.00    | 4.73    | 22  |
| 10 | 4.00    | 6.00    | 4.68    | 22  |
| 11 | 4.00    | 6.00    | 4.82    | 22  |
| 12 | 4.00    | 6.00    | 4.64    | 22  |
| 13 | 4.00    | 6.00    | 4.45    | 22  |
| 14 | 4.00    | 6.00    | 4.27    | 22  |
| 15 | 4.00    | 6.00    | 4.32    | 22  |
| 16 | 4.00    | 6.00    | 4.36    | 22  |
| 17 | 4.00    | 6.00    | 4.09    | 22  |
| 18 | 4.00    | 6.00    | 4.23    | 22  |
| 19 | 4.00    | 6.00    | 4.29    | 21  |
| 20 | 4.00    | 5.00    | 4.24    | 21  |
| 21 | 4.00    | 6.00    | 4.19    | 21  |
| 22 | 4.00    | 6.00    | 4.29    | 21  |
| 23 | 4.00    | 6.00    | 4.29    | 21  |
| 24 | 4.00    | 6.00    | 4.48    | 21  |

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|      |      |      |     |
|------|------|------|-----|
| 1.00 | 6.00 | 4.03 | 522 |
|------|------|------|-----|

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WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: MET1

Period: 6/ 1/91 thru 6/30/91

Month and year of record: JUNE, 91

| WIND SPEED (MPH) |         |         |         |     | WIND DIRECTION (DEG) |         |         |     | AIR TEMPERATURE (F) |         |         |     |
|------------------|---------|---------|---------|-----|----------------------|---------|---------|-----|---------------------|---------|---------|-----|
| HR               | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM              | MAXIMUM | AVERAGE | OBS | MINIMUM             | MAXIMUM | AVERAGE | OBS |
| 1                | 2.10    | 12.15   | 7.79    | 14  | 8.77                 | 329.50  | 188.93  | 14  | 51.74               | 76.60   | 61.63   | 25  |
| 2                | 1.75    | 13.48   | 6.81    | 13  | 73.50                | 334.80  | 199.25  | 13  | 51.86               | 71.80   | 60.27   | 23  |
| 3                | 2.32    | 9.77    | 6.21    | 13  | 0.00                 | 287.90  | 185.85  | 13  | 51.33               | 70.20   | 59.03   | 23  |
| 4                | 4.07    | 11.09   | 7.79    | 13  | 115.10               | 345.80  | 197.59  | 13  | 51.93               | 68.52   | 58.46   | 23  |
| 5                | 3.00    | 10.91   | 7.30    | 13  | 47.72                | 259.80  | 199.35  | 13  | 51.79               | 66.04   | 57.48   | 23  |
| 6                | 2.61    | 12.71   | 6.98    | 13  | 74.30                | 341.90  | 215.17  | 13  | 52.53               | 64.19   | 57.43   | 23  |
| 7                | 2.34    | 13.79   | 7.14    | 13  | 83.60                | 353.80  | 230.31  | 13  | 53.32               | 68.71   | 60.05   | 21  |
| 8                | 2.68    | 12.75   | 6.11    | 13  | 90.10                | 359.80  | 265.28  | 13  | 55.23               | 76.00   | 64.18   | 22  |
| 9                | 3.08    | 9.53    | 5.30    | 13  | 28.50                | 331.50  | 237.17  | 13  | 56.24               | 84.10   | 68.28   | 25  |
| 10               | 2.65    | 8.53    | 5.20    | 13  | 5.28                 | 308.50  | 352.81  | 13  | 57.30               | 89.00   | 71.74   | 26  |
| 11               | 3.63    | 10.29   | 5.92    | 13  | 35.65                | 296.30  | 110.18  | 13  | 60.14               | 91.10   | 74.18   | 26  |
| 12               | 4.14    | 8.20    | 5.88    | 13  | 63.94                | 359.50  | 102.55  | 13  | 62.38               | 91.90   | 76.37   | 26  |
| 13               | 3.16    | 8.09    | 6.13    | 12  | 53.29                | 343.00  | 116.16  | 12  | 63.80               | 95.60   | 78.43   | 26  |
| 14               | 4.65    | 9.80    | 6.77    | 12  | 41.89                | 351.80  | 103.76  | 12  | 64.48               | 96.90   | 79.73   | 25  |
| 15               | 5.34    | 18.59   | 9.54    | 11  | 14.66                | 355.50  | 332.22  | 11  | 64.41               | 97.00   | 79.10   | 24  |
| 16               | 4.70    | 17.07   | 10.19   | 11  | 24.77                | 339.00  | 249.14  | 11  | 60.53               | 96.90   | 78.54   | 22  |
| 17               | 4.28    | 22.39   | 12.15   | 12  | 8.81                 | 309.10  | 124.71  | 12  | 57.20               | 95.40   | 76.47   | 24  |
| 18               | 3.89    | 24.18   | 11.12   | 14  | 29.47                | 352.50  | 136.62  | 14  | 54.83               | 92.90   | 75.17   | 27  |
| 19               | 2.49    | 24.77   | 9.88    | 14  | 16.63                | 267.40  | 145.97  | 14  | 55.84               | 91.20   | 73.39   | 27  |
| 20               | 4.55    | 27.36   | 9.74    | 14  | 5.43                 | 190.80  | 137.45  | 14  | 54.88               | 86.40   | 70.05   | 26  |
| 21               | 6.15    | 19.07   | 9.87    | 14  | 23.82                | 345.90  | 163.78  | 14  | 53.27               | 84.50   | 68.19   | 25  |
| 22               | 3.37    | 16.19   | 8.78    | 14  | 59.02                | 293.80  | 181.73  | 14  | 52.03               | 83.10   | 66.19   | 25  |
| 23               | 3.79    | 15.21   | 8.02    | 14  | 42.44                | 319.70  | 163.74  | 14  | 51.58               | 81.00   | 64.69   | 24  |
| 24               | 4.07    | 14.07   | 8.32    | 14  | 88.70                | 337.90  | 181.47  | 14  | 51.48               | 79.40   | 63.36   | 25  |
|                  |         |         |         |     |                      |         |         |     |                     |         |         |     |
|                  | 1.75    | 27.36   | 7.88    | 313 | 0.00                 | 359.80  | 181.30  | 1   | 51.33               | 97.00   | 68.69   | 586 |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: MET1

Period: 6/ 1/91 thru 6/30/91

Month and year of record: JUNE, 91

| RELATIVE HUMIDITY |         |         |         |     | MAXIMUM WIND SPEED (MPH) |         |         |     | PRECIPITATION (IN) |         |       |     |
|-------------------|---------|---------|---------|-----|--------------------------|---------|---------|-----|--------------------|---------|-------|-----|
| HR                | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM                  | MAXIMUM | AVERAGE | OBS | MINIMUM            | MAXIMUM | TOTAL | OBS |
| 1                 | 12.05   | 96.30   | 62.58   | 25  | 5.91                     | 16.75   | 11.52   | 14  | 0.00               | 0.01    | 0.01  | 27  |
| 2                 | 13.09   | 96.50   | 66.73   | 23  | 5.54                     | 17.20   | 10.83   | 13  | 0.00               | 0.00    | 0.00  | 26  |
| 3                 | 14.51   | 96.60   | 68.91   | 23  | 5.79                     | 15.52   | 10.18   | 13  | 0.00               | 0.00    | 0.00  | 26  |
| 4                 | 14.01   | 96.00   | 69.79   | 23  | 6.03                     | 16.77   | 10.94   | 13  | 0.00               | 0.01    | 0.01  | 26  |
| 5                 | 15.15   | 96.00   | 70.58   | 23  | 5.19                     | 13.13   | 9.99    | 13  | 0.00               | 0.00    | 0.00  | 26  |
| 6                 | 16.94   | 95.80   | 71.27   | 23  | 5.27                     | 19.73   | 10.57   | 13  | 0.00               | 0.02    | 0.04  | 26  |
| 7                 | 17.72   | 96.60   | 71.61   | 21  | 5.32                     | 22.32   | 11.30   | 13  | 0.00               | 0.00    | 0.00  | 26  |
| 8                 | 14.68   | 96.10   | 60.95   | 22  | 5.24                     | 16.49   | 9.80    | 13  | 0.00               | 0.00    | 0.00  | 26  |
| 9                 | 11.14   | 94.30   | 50.34   | 25  | 6.02                     | 15.12   | 10.09   | 13  | 0.00               | 0.00    | 0.00  | 26  |
| 10                | 9.64    | 94.00   | 42.48   | 26  | 5.96                     | 14.65   | 11.21   | 13  | 0.00               | 0.00    | 0.00  | 26  |
| 11                | 9.28    | 93.10   | 37.70   | 26  | 9.62                     | 20.26   | 13.66   | 13  | 0.00               | 0.01    | 0.01  | 26  |
| 12                | 9.22    | 89.10   | 32.82   | 26  | 9.23                     | 18.73   | 12.91   | 13  | 0.00               | 0.00    | 0.00  | 26  |
| 13                | 8.34    | 83.20   | 28.61   | 26  | 6.11                     | 25.00   | 14.85   | 12  | 0.00               | 0.00    | 0.00  | 27  |
| 14                | 8.07    | 67.32   | 24.77   | 25  | 7.82                     | 30.88   | 17.89   | 12  | 0.00               | 0.00    | 0.00  | 27  |
| 15                | 8.07    | 63.91   | 26.67   | 24  | 10.83                    | 35.23   | 20.15   | 11  | 0.00               | 0.04    | 0.04  | 27  |
| 16                | 8.09    | 77.70   | 28.68   | 22  | 8.73                     | 37.46   | 21.73   | 11  | 0.00               | 0.33    | 0.52  | 27  |
| 17                | 8.39    | 83.50   | 31.53   | 24  | 9.66                     | 37.95   | 24.04   | 12  | 0.00               | 0.32    | 0.51  | 27  |
| 18                | 8.88    | 94.00   | 33.62   | 27  | 7.20                     | 36.93   | 20.26   | 14  | 0.00               | 0.07    | 0.12  | 27  |
| 19                | 9.23    | 88.90   | 35.73   | 27  | 4.44                     | 42.39   | 16.95   | 14  | 0.00               | 0.04    | 0.04  | 27  |
| 20                | 10.17   | 93.70   | 41.73   | 26  | 9.45                     | 40.35   | 17.12   | 14  | 0.00               | 0.02    | 0.04  | 27  |
| 21                | 10.53   | 96.60   | 45.08   | 25  | 9.29                     | 38.48   | 16.97   | 14  | 0.00               | 0.12    | 0.13  | 27  |
| 22                | 10.83   | 96.10   | 50.03   | 25  | 7.96                     | 38.69   | 15.28   | 14  | 0.00               | 0.03    | 0.04  | 27  |
| 23                | 11.24   | 96.80   | 54.63   | 24  | 7.22                     | 22.46   | 13.04   | 14  | 0.00               | 0.02    | 0.02  | 27  |
| 24                | 11.56   | 96.50   | 57.51   | 25  | 6.91                     | 17.70   | 12.69   | 14  | 0.00               | 0.01    | 0.02  | 27  |
|                   | 8.07    | 96.80   | 47.90   | 586 | 4.44                     | 42.39   | 14.23   | 313 | 0.00               | 0.33    | 0.00  | 637 |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: MET1

Period: 6/ 1/91 thru 6/30/91

Month and year of record: JUNE, 91

| AIR TEMPERATURE 2 METERS (F) |         |         |         |     | TEMPERATURE DIFFERENCE (F) |         |         |     | SIGMA THETA (DEGREES) |         |         |     |
|------------------------------|---------|---------|---------|-----|----------------------------|---------|---------|-----|-----------------------|---------|---------|-----|
| HR                           | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM                    | MAXIMUM | AVERAGE | OBS | MINIMUM               | MAXIMUM | AVERAGE | OBS |
| 1                            | 50.00   | 68.16   | 58.49   | 27  | 0.43                       | 9.30    | 3.26    | 27  | 4.88                  | 35.29   | 11.81   | 16  |
| 2                            | 49.46   | 65.98   | 57.23   | 26  | 0.36                       | 7.96    | 3.36    | 26  | 3.62                  | 50.46   | 16.46   | 13  |
| 3                            | 48.72   | 64.72   | 55.83   | 26  | 0.56                       | 8.43    | 3.48    | 26  | 3.75                  | 35.11   | 16.95   | 13  |
| 4                            | 49.83   | 61.83   | 54.78   | 26  | 0.46                       | 11.01   | 4.02    | 26  | 3.82                  | 17.57   | 8.73    | 13  |
| 5                            | 48.85   | 61.54   | 54.13   | 26  | 0.66                       | 11.27   | 3.54    | 26  | 2.52                  | 27.23   | 10.40   | 13  |
| 6                            | 50.86   | 63.12   | 56.07   | 26  | 0.09                       | 4.08    | 1.56    | 26  | 4.48                  | 32.19   | 11.13   | 13  |
| 7                            | 53.11   | 69.23   | 60.33   | 26  | -0.45                      | 1.50    | 0.12    | 26  | 6.65                  | 29.47   | 13.70   | 13  |
| 8                            | 55.12   | 75.40   | 64.60   | 26  | -1.05                      | 0.39    | -0.39   | 26  | 6.95                  | 41.70   | 19.68   | 13  |
| 9                            | 55.95   | 83.70   | 68.57   | 26  | -1.61                      | 0.01    | -0.67   | 26  | 12.19                 | 40.57   | 24.74   | 13  |
| 10                           | 57.06   | 89.20   | 71.97   | 26  | -1.96                      | -0.01   | -0.79   | 26  | 19.91                 | 46.89   | 33.06   | 13  |
| 11                           | 60.19   | 91.00   | 74.62   | 26  | -2.22                      | 0.01    | -0.91   | 26  | 18.77                 | 6061.30 | 666.57  | 15  |
| 12                           | 62.58   | 92.00   | 76.75   | 26  | -1.98                      | 4.95    | -0.63   | 26  | 16.92                 | 111.59  | 42.82   | 15  |
| 13                           | 64.19   | 95.70   | 78.83   | 26  | -2.17                      | -0.06   | -0.83   | 26  | 15.89                 | 4949.60 | 690.37  | 15  |
| 14                           | 64.42   | 96.50   | 80.03   | 25  | -1.88                      | 0.78    | -0.63   | 25  | 13.32                 | 4949.70 | 393.10  | 15  |
| 15                           | 64.13   | 96.40   | 79.22   | 24  | -2.04                      | 1.47    | -0.47   | 24  | 9.34                  | 4949.30 | 682.63  | 15  |
| 16                           | 59.62   | 96.20   | 78.83   | 23  | -1.96                      | 1.40    | -0.32   | 23  | 10.53                 | 3499.50 | 271.47  | 14  |
| 17                           | 55.52   | 94.10   | 76.19   | 25  | -1.17                      | 1.87    | 0.20    | 25  | 7.64                  | 29.07   | 16.56   | 14  |
| 18                           | 54.54   | 91.30   | 74.41   | 27  | -0.70                      | 2.06    | 0.44    | 27  | 7.27                  | 499.14  | 84.58   | 14  |
| 19                           | 54.73   | 89.40   | 71.84   | 27  | -0.07                      | 3.23    | 1.14    | 27  | 6.21                  | 47.11   | 13.60   | 14  |
| 20                           | 53.79   | 80.60   | 67.68   | 27  | 0.14                       | 5.40    | 2.25    | 27  | 5.62                  | 26.91   | 12.74   | 14  |
| 21                           | 52.25   | 80.80   | 65.19   | 27  | 0.33                       | 8.59    | 2.97    | 27  | 4.78                  | 20.98   | 9.22    | 14  |
| 22                           | 50.50   | 79.10   | 63.31   | 27  | 0.41                       | 6.68    | 2.78    | 27  | 4.62                  | 36.54   | 18.98   | 14  |
| 23                           | 49.78   | 74.90   | 61.49   | 27  | 0.32                       | 7.66    | 3.38    | 27  | 4.86                  | 35.21   | 14.52   | 14  |
| 24                           | 49.76   | 70.00   | 59.62   | 27  | 0.66                       | 9.05    | 3.70    | 27  | 5.99                  | 40.59   | 14.42   | 14  |
|                              | 48.72   | 96.50   | 66.93   | 625 | -2.22                      | 11.27   | 1.31    | 625 | 2.52                  | 6061.30 | 136.88  | 334 |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: MET1

Period: 6/ 1/91 thru 6/30/91

Month and year of record: JUNE, 91

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P-G STABILITY CLASSIFICATION

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| HR    | MINIMUM | MAXIMUM | AVERAGE | OBS |
|-------|---------|---------|---------|-----|
| 1     | 1.00    | 4.00    | 3.43    | 14  |
| 2     | 1.00    | 4.00    | 3.00    | 13  |
| 3     | 1.00    | 4.00    | 2.62    | 13  |
| 4     | 2.00    | 4.00    | 3.69    | 13  |
| 5     | 1.00    | 4.00    | 3.38    | 13  |
| 6     | 1.00    | 5.00    | 3.54    | 13  |
| 7     | 1.00    | 4.00    | 3.08    | 13  |
| 8     | 1.00    | 4.00    | 2.54    | 13  |
| 9     | 4.00    | 6.00    | 5.38    | 13  |
| 10    | 4.00    | 6.00    | 5.54    | 13  |
| 11    | 4.00    | 6.00    | 5.54    | 13  |
| 12    | 4.00    | 6.00    | 5.62    | 13  |
| 13    | 4.00    | 6.00    | 5.33    | 12  |
| 14    | 4.00    | 6.00    | 4.75    | 12  |
| 15    | 4.00    | 6.00    | 4.55    | 11  |
| 16    | 4.00    | 6.00    | 4.55    | 11  |
| 17    | 4.00    | 6.00    | 4.50    | 12  |
| 18    | 4.00    | 6.00    | 4.43    | 14  |
| 19    | 4.00    | 6.00    | 4.50    | 14  |
| 20    | 4.00    | 6.00    | 4.57    | 14  |
| 21    | 4.00    | 5.00    | 4.43    | 14  |
| 22    | 4.00    | 6.00    | 4.86    | 14  |
| 23    | 4.00    | 6.00    | 4.71    | 14  |
| 24    | 4.00    | 6.00    | 4.86    | 14  |
| <hr/> |         |         |         |     |
|       | 1.00    | 6.00    | 4.30    | 313 |

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WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: MET1

Period: 7/ 1/91 thru 7/31/91

Month and year of record: JULY, 91

| WIND SPEED (MPH) |         |         |         |     | WIND DIRECTION (DEG) |         |         |     | AIR TEMPERATURE (F) |         |         |     |
|------------------|---------|---------|---------|-----|----------------------|---------|---------|-----|---------------------|---------|---------|-----|
| HR               | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM              | MAXIMUM | AVERAGE | OBS | MINIMUM             | MAXIMUM | AVERAGE | OBS |
| 1                | 0.49    | 13.01   | 7.37    | 24  | 31.34                | 331.80  | 183.12  | 24  | 27.45               | 72.90   | 64.26   | 24  |
| 2                | 0.49    | 13.01   | 7.60    | 24  | 126.20               | 353.30  | 189.72  | 24  | 34.66               | 71.80   | 62.79   | 24  |
| 3                | 1.69    | 12.90   | 6.98    | 24  | 2.26                 | 337.10  | 192.22  | 24  | 36.27               | 69.71   | 61.06   | 24  |
| 4                | 2.09    | 12.54   | 6.87    | 22  | 8.26                 | 246.60  | 196.48  | 24  | 35.63               | 67.73   | 59.77   | 24  |
| 5                | 1.24    | 11.74   | 6.69    | 24  | 27.00                | 329.50  | 206.90  | 24  | 36.11               | 67.63   | 58.63   | 24  |
| 6                | 0.51    | 10.57   | 5.64    | 24  | 36.97                | 332.10  | 217.38  | 24  | 35.64               | 70.10   | 58.66   | 24  |
| 7                | 0.49    | 10.65   | 5.61    | 24  | 39.18                | 319.50  | 217.40  | 24  | 37.66               | 72.70   | 61.65   | 24  |
| 8                | 1.29    | 11.09   | 5.86    | 24  | 8.57                 | 346.30  | 228.72  | 24  | 41.34               | 78.10   | 67.03   | 24  |
| 9                | 0.70    | 23.50   | 5.89    | 23  | 24.49                | 355.80  | 204.13  | 23  | 56.04               | 83.20   | 71.33   | 24  |
| 10               | 0.66    | 18.76   | 6.22    | 23  | 7.58                 | 359.40  | 33.85   | 23  | 56.39               | 89.00   | 75.09   | 24  |
| 11               | 2.51    | 16.18   | 6.95    | 24  | 2.57                 | 988.00  | 33.05   | 25  | 56.65               | 988.00  | 115.10  | 25  |
| 12               | 4.15    | 15.84   | 7.61    | 23  | 22.92                | 356.30  | 30.67   | 23  | 57.49               | 94.10   | 80.13   | 23  |
| 13               | 5.10    | 13.31   | 8.72    | 24  | 0.81                 | 359.80  | 35.98   | 24  | 59.08               | 92.80   | 81.61   | 24  |
| 14               | 4.99    | 19.22   | 9.60    | 24  | 2.36                 | 358.30  | 35.52   | 24  | 59.72               | 93.10   | 82.21   | 24  |
| 15               | 4.92    | 18.70   | 10.08   | 24  | 4.75                 | 346.60  | 10.82   | 24  | 57.80               | 93.30   | 81.03   | 24  |
| 16               | 3.78    | 20.07   | 11.25   | 24  | 2.62                 | 334.60  | 9.53    | 24  | 59.80               | 93.40   | 80.26   | 23  |
| 17               | 5.45    | 21.80   | 10.51   | 25  | 3.74                 | 305.40  | 20.30   | 25  | 59.89               | 92.00   | 79.72   | 24  |
| 18               | 3.18    | 23.00   | 9.81    | 25  | 8.43                 | 349.10  | 36.96   | 25  | 59.60               | 91.30   | 78.20   | 24  |
| 19               | 2.56    | 19.14   | 9.24    | 25  | 6.78                 | 343.90  | 86.36   | 25  | 59.09               | 89.00   | 75.46   | 24  |
| 20               | 3.42    | 13.09   | 7.34    | 25  | 3.98                 | 286.50  | 131.65  | 25  | 59.11               | 85.90   | 73.14   | 24  |
| 21               | 1.47    | 12.23   | 7.25    | 25  | 1.47                 | 316.30  | 170.03  | 25  | 57.99               | 83.00   | 71.35   | 24  |
| 22               | 0.99    | 16.98   | 8.68    | 25  | 34.10                | 338.10  | 184.79  | 25  | 57.58               | 80.10   | 70.06   | 24  |
| 23               | 1.10    | 18.55   | 8.41    | 25  | 91.60                | 344.50  | 193.96  | 25  | 57.01               | 76.80   | 68.28   | 24  |
| 24               | 0.49    | 14.80   | 7.49    | 25  | 57.43                | 342.40  | 201.33  | 25  | 49.05               | 74.70   | 66.50   | 24  |
|                  | 0.49    | 23.50   | 7.84    | 579 | 0.81                 | 988.00  | 189.09  | 1   | 27.45               | 988.00  | 72.68   | 575 |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: MET1

Period: 7/ 1/91 thru 7/31/91

Month and year of record: JULY, 91

| RELATIVE HUMIDITY |         |         |         |     | MAXIMUM WIND SPEED (MPH) |         |         |     | PRECIPITATION (IN) |         |       |     |
|-------------------|---------|---------|---------|-----|--------------------------|---------|---------|-----|--------------------|---------|-------|-----|
| HR                | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM                  | MAXIMUM | AVERAGE | OBS | MINIMUM            | MAXIMUM | TOTAL | OBS |
| 1                 | 14.33   | 97.10   | 56.21   | 24  | 0.49                     | 23.15   | 11.14   | 24  | 0.00               | 0.04    | 0.04  | 31  |
| 2                 | 20.66   | 96.90   | 58.82   | 24  | 0.50                     | 23.12   | 10.79   | 24  | 0.00               | 0.07    | 0.08  | 31  |
| 3                 | 20.07   | 97.10   | 61.22   | 24  | 3.46                     | 17.90   | 10.24   | 24  | 0.00               | 0.01    | 0.01  | 31  |
| 4                 | 20.65   | 97.10   | 62.93   | 24  | 4.09                     | 15.43   | 10.01   | 24  | 0.00               | 0.01    | 0.01  | 31  |
| 5                 | 20.47   | 97.30   | 64.52   | 24  | 5.04                     | 15.65   | 9.90    | 24  | 0.00               | 0.01    | 0.01  | 31  |
| 6                 | 19.60   | 97.40   | 65.09   | 24  | 3.77                     | 14.25   | 8.96    | 24  | 0.00               | 0.03    | 0.03  | 31  |
| 7                 | 17.84   | 97.40   | 63.32   | 24  | 0.49                     | 15.59   | 9.49    | 24  | 0.00               | 0.02    | 0.02  | 31  |
| 8                 | 14.89   | 96.50   | 56.12   | 24  | 5.36                     | 48.24   | 12.35   | 24  | 0.00               | 0.00    | 0.00  | 31  |
| 9                 | 12.85   | 94.20   | 48.31   | 24  | 5.10                     | 32.11   | 11.32   | 23  | 0.00               | 0.00    | 0.00  | 31  |
| 10                | 10.19   | 96.60   | 42.51   | 24  | 5.43                     | 28.68   | 12.03   | 23  | 0.00               | 0.05    | 0.05  | 31  |
| 11                | 9.53    | 988.00  | 75.32   | 25  | 7.63                     | 988.00  | 90.25   | 26  | 0.00               | 0.07    | 0.08  | 31  |
| 12                | 8.72    | 94.80   | 34.34   | 23  | 9.74                     | 26.65   | 16.01   | 23  | 0.00               | 0.00    | 0.00  | 31  |
| 13                | 8.98    | 91.80   | 30.93   | 24  | 11.73                    | 41.84   | 18.18   | 24  | 0.00               | 0.02    | 0.02  | 31  |
| 14                | 8.89    | 90.80   | 30.00   | 24  | 10.50                    | 37.02   | 19.27   | 24  | 0.00               | 0.01    | 0.01  | 31  |
| 15                | 8.83    | 88.60   | 32.38   | 24  | 11.46                    | 47.42   | 19.96   | 24  | 0.00               | 1.38    | 2.10  | 31  |
| 16                | 8.96    | 92.90   | 34.55   | 23  | 9.10                     | 34.09   | 20.51   | 24  | 0.00               | 0.17    | 0.25  | 31  |
| 17                | 9.10    | 94.10   | 34.24   | 24  | 9.13                     | 33.35   | 18.86   | 25  | 0.00               | 0.05    | 0.10  | 31  |
| 18                | 9.24    | 93.70   | 35.92   | 24  | 8.56                     | 32.48   | 17.39   | 25  | 0.00               | 0.13    | 0.26  | 31  |
| 19                | 9.75    | 96.60   | 41.18   | 24  | 6.11                     | 32.91   | 15.86   | 25  | 0.00               | 0.09    | 0.27  | 31  |
| 20                | 10.33   | 97.80   | 44.60   | 24  | 6.64                     | 22.69   | 13.65   | 25  | 0.00               | 0.07    | 0.15  | 31  |
| 21                | 10.92   | 97.00   | 47.26   | 24  | 5.51                     | 24.78   | 12.29   | 25  | 0.00               | 0.06    | 0.06  | 31  |
| 22                | 11.92   | 97.40   | 49.27   | 24  | 6.00                     | 31.10   | 13.92   | 25  | 0.00               | 0.02    | 0.04  | 31  |
| 23                | 14.06   | 98.30   | 52.14   | 24  | 6.16                     | 27.96   | 13.33   | 25  | 0.00               | 0.01    | 0.01  | 31  |
| 24                | 15.19   | 97.70   | 54.01   | 24  | 0.49                     | 23.85   | 11.67   | 25  | 0.00               | 0.00    | 0.00  | 31  |
|                   | 8.72    | 988.00  | 49.06   | 575 | 0.49                     | 988.00  | 17.21   | 583 | 0.00               | 1.38    | 0.00  | 744 |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM  
COMPOSITE DAY ANALYSIS

Selected Station: MET1

Period: 7/ 1/91 thru 7/31/91

Month and year of record: JULY, 91

| AIR TEMPERATURE 2 METERS (F) |         |         |         |     | TEMPERATURE DIFFERENCE (F) |         |         |     | SIGMA THETA (DEGREES) |         |         |     |
|------------------------------|---------|---------|---------|-----|----------------------------|---------|---------|-----|-----------------------|---------|---------|-----|
| HR                           | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM                    | MAXIMUM | AVERAGE | OBS | MINIMUM               | MAXIMUM | AVERAGE | OBS |
| 1                            | 55.23   | 70.80   | 63.02   | 31  | 0.16                       | 6.66    | 2.83    | 31  | 3.60                  | 25.70   | 10.37   | 24  |
| 2                            | 54.28   | 67.19   | 61.53   | 31  | 0.11                       | 6.78    | 3.02    | 31  | 3.95                  | 28.04   | 8.25    | 24  |
| 3                            | 54.01   | 67.44   | 60.28   | 31  | 0.12                       | 8.32    | 3.24    | 31  | 3.58                  | 24.08   | 8.32    | 24  |
| 4                            | 53.11   | 65.93   | 59.52   | 31  | 0.10                       | 6.57    | 3.14    | 31  | 3.17                  | 29.03   | 8.73    | 24  |
| 5                            | 52.96   | 66.55   | 58.77   | 31  | 0.12                       | 5.60    | 3.03    | 31  | 2.49                  | 29.67   | 11.21   | 24  |
| 6                            | 53.62   | 68.98   | 60.02   | 31  | -0.01                      | 4.06    | 1.84    | 31  | 4.30                  | 27.18   | 11.06   | 24  |
| 7                            | 56.14   | 73.10   | 64.56   | 31  | -0.56                      | 1.15    | 0.05    | 31  | 5.47                  | 499.05  | 32.43   | 24  |
| 8                            | 56.47   | 79.00   | 68.91   | 31  | -0.83                      | 0.47    | -0.35   | 31  | 7.78                  | 3499.60 | 161.85  | 24  |
| 9                            | 57.66   | 84.20   | 72.78   | 30  | -0.98                      | 0.05    | -0.58   | 30  | 8.03                  | 100.87  | 26.62   | 24  |
| 10                           | 56.54   | 90.20   | 76.34   | 30  | -8.95                      | -0.09   | -1.12   | 30  | 10.07                 | 3499.60 | 191.45  | 24  |
| 11                           | 56.98   | 988.00  | 108.68  | 30  | -2.21                      | 988.00  | 33.02   | 30  | 9.77                  | 4949.70 | 219.98  | 26  |
| 12                           | 57.94   | 95.70   | 80.99   | 28  | -2.02                      | 0.10    | -1.04   | 28  | 11.91                 | 4949.70 | 220.92  | 26  |
| 13                           | 59.51   | 94.30   | 82.58   | 29  | -1.77                      | 0.51    | -1.02   | 29  | 12.93                 | 112.89  | 29.12   | 26  |
| 14                           | 60.25   | 95.40   | 83.21   | 29  | -1.79                      | 0.40    | -0.92   | 29  | 9.35                  | 93.77   | 28.20   | 26  |
| 15                           | 57.67   | 95.80   | 81.97   | 29  | -1.84                      | 0.75    | -0.74   | 29  | 6.21                  | 3499.50 | 156.73  | 26  |
| 16                           | 60.50   | 95.00   | 80.35   | 30  | -1.51                      | 1.00    | -0.44   | 30  | 9.53                  | 48.26   | 20.43   | 25  |
| 17                           | 60.15   | 93.60   | 79.69   | 31  | -1.13                      | 2.33    | -0.24   | 31  | 9.41                  | 34.33   | 16.41   | 25  |
| 18                           | 59.56   | 92.30   | 77.82   | 31  | -0.72                      | 4.09    | 0.26    | 31  | 6.17                  | 35.94   | 15.50   | 25  |
| 19                           | 58.92   | 88.60   | 74.38   | 31  | 0.01                       | 2.90    | 0.89    | 31  | 6.39                  | 25.54   | 11.61   | 24  |
| 20                           | 59.30   | 81.40   | 71.15   | 31  | 0.25                       | 6.82    | 2.01    | 31  | 5.12                  | 24.81   | 11.25   | 25  |
| 21                           | 57.76   | 75.60   | 68.57   | 31  | 0.20                       | 10.21   | 2.88    | 31  | 5.10                  | 39.25   | 13.53   | 25  |
| 22                           | 57.34   | 74.90   | 67.17   | 31  | 0.14                       | 9.13    | 2.90    | 31  | 3.84                  | 25.01   | 9.60    | 25  |
| 23                           | 56.89   | 73.40   | 66.06   | 31  | 0.21                       | 6.57    | 2.31    | 31  | 5.53                  | 42.36   | 12.28   | 25  |
| 24                           | 56.45   | 74.60   | 64.73   | 31  | 0.17                       | 5.26    | 2.47    | 31  | 4.85                  | 32.59   | 11.78   | 25  |
|                              | 52.96   | 988.00  | 72.02   | 731 | -8.95                      | 988.00  | 2.41    | 731 | 2.49                  | 4949.70 | 52.80   | 594 |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: MET1

Period: 7/ 1/91 thru 7/31/91

Month and year of record: JULY, 91

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P-G STABILITY CLASSIFICATION

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| HR    | MINIMUM | MAXIMUM | AVERAGE | OBS |
|-------|---------|---------|---------|-----|
| 1     | 1.00    | 4.00    | 3.42    | 24  |
| 2     | 1.00    | 4.00    | 3.88    | 24  |
| 3     | 1.00    | 4.00    | 3.75    | 24  |
| 4     | 1.00    | 4.00    | 3.75    | 24  |
| 5     | 1.00    | 4.00    | 3.29    | 24  |
| 6     | 1.00    | 4.00    | 3.38    | 24  |
| 7     | 1.00    | 4.00    | 3.33    | 24  |
| 8     | 1.00    | 4.00    | 2.96    | 23  |
| 9     | 4.00    | 6.00    | 5.22    | 23  |
| 10    | 4.00    | 6.00    | 5.23    | 22  |
| 11    | 4.00    | 6.00    | 5.13    | 24  |
| 12    | 4.00    | 6.00    | 5.13    | 23  |
| 13    | 4.00    | 6.00    | 4.54    | 24  |
| 14    | 4.00    | 6.00    | 4.67    | 24  |
| 15    | 4.00    | 6.00    | 4.43    | 23  |
| 16    | 4.00    | 6.00    | 4.38    | 24  |
| 17    | 4.00    | 6.00    | 4.20    | 25  |
| 18    | 4.00    | 6.00    | 4.32    | 25  |
| 19    | 4.00    | 5.00    | 4.28    | 25  |
| 20    | 4.00    | 6.00    | 4.56    | 25  |
| 21    | 4.00    | 6.00    | 4.60    | 25  |
| 22    | 4.00    | 5.00    | 4.36    | 25  |
| 23    | 4.00    | 6.00    | 4.56    | 25  |
| 24    | 4.00    | 6.00    | 4.64    | 25  |
| <hr/> |         |         |         |     |
|       | 1.00    | 6.00    | 4.25    | 578 |

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WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: MET1

Period: 8/ 1/91 thru 8/31/91

Month and year of record: AUGUST, 91

| WIND SPEED (MPH) |         |         |         |     | WIND DIRECTION (DEG) |         |         |     | AIR TEMPERATURE (F) |         |         |     |
|------------------|---------|---------|---------|-----|----------------------|---------|---------|-----|---------------------|---------|---------|-----|
| HR               | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM              | MAXIMUM | AVERAGE | OBS | MINIMUM             | MAXIMUM | AVERAGE | OBS |
| 1                | 3.77    | 12.72   | 8.20    | 22  | 162.90               | 281.90  | 194.69  | 22  | 58.98               | 73.80   | 63.99   | 31  |
| 2                | 3.10    | 12.27   | 7.70    | 22  | 7.20                 | 304.80  | 198.56  | 22  | 58.16               | 71.40   | 62.90   | 31  |
| 3                | 3.19    | 11.24   | 7.62    | 22  | 8.63                 | 303.70  | 195.90  | 22  | 58.17               | 70.50   | 62.20   | 31  |
| 4                | 3.66    | 10.61   | 7.36    | 21  | 97.50                | 336.50  | 209.35  | 22  | 56.59               | 67.17   | 61.10   | 31  |
| 5                | 3.90    | 10.73   | 7.41    | 22  | 49.88                | 355.10  | 204.99  | 22  | 55.75               | 66.62   | 60.39   | 31  |
| 6                | 1.99    | 10.95   | 6.70    | 22  | 19.79                | 329.30  | 212.53  | 22  | 55.65               | 66.94   | 60.22   | 31  |
| 7                | 1.85    | 8.06    | 5.87    | 22  | 59.98                | 352.20  | 217.10  | 22  | 56.41               | 68.54   | 61.72   | 31  |
| 8                | 2.63    | 11.54   | 6.31    | 22  | 79.80                | 338.50  | 231.28  | 22  | 59.21               | 74.50   | 66.14   | 31  |
| 9                | 2.55    | 10.62   | 5.25    | 22  | 36.32                | 349.00  | 266.92  | 22  | 59.60               | 78.90   | 70.53   | 31  |
| 10               | 2.07    | 11.48   | 5.42    | 21  | 5.24                 | 357.70  | 12.81   | 21  | 59.41               | 83.20   | 73.80   | 31  |
| 11               | 3.16    | 9.67    | 6.05    | 21  | 2.70                 | 322.30  | 49.18   | 21  | 59.90               | 87.00   | 76.26   | 31  |
| 12               | 3.78    | 11.12   | 6.42    | 22  | 17.44                | 358.70  | 43.07   | 22  | 58.65               | 88.40   | 78.36   | 31  |
| 13               | 4.01    | 13.90   | 7.14    | 22  | 5.11                 | 334.50  | 47.69   | 22  | 57.54               | 89.40   | 79.97   | 31  |
| 14               | 4.46    | 14.50   | 7.86    | 21  | 1.42                 | 355.30  | 33.58   | 21  | 57.47               | 90.00   | 80.72   | 31  |
| 15               | 4.31    | 10.79   | 7.26    | 22  | 2.92                 | 354.50  | 20.64   | 22  | 58.04               | 90.90   | 80.89   | 31  |
| 16               | 3.23    | 16.99   | 8.25    | 22  | 7.26                 | 355.70  | 343.57  | 22  | 58.82               | 91.00   | 79.39   | 31  |
| 17               | 3.22    | 17.13   | 9.47    | 22  | 0.17                 | 356.50  | 327.24  | 22  | 59.96               | 88.60   | 77.44   | 31  |
| 18               | 4.38    | 16.35   | 8.47    | 21  | 5.35                 | 346.30  | 282.49  | 21  | 60.53               | 84.50   | 75.72   | 31  |
| 19               | 4.02    | 16.69   | 8.34    | 22  | 8.79                 | 325.10  | 194.21  | 22  | 60.37               | 80.50   | 73.08   | 31  |
| 20               | 1.48    | 12.70   | 6.67    | 22  | 28.43                | 355.60  | 244.77  | 22  | 59.96               | 79.10   | 70.59   | 31  |
| 21               | 2.63    | 12.76   | 7.47    | 21  | 11.08                | 314.10  | 188.28  | 21  | 60.20               | 77.50   | 68.49   | 31  |
| 22               | 3.58    | 12.17   | 7.87    | 21  | 10.67                | 346.30  | 185.50  | 21  | 60.20               | 76.10   | 67.05   | 31  |
| 23               | 3.60    | 11.42   | 7.72    | 21  | 102.60               | 353.60  | 189.18  | 21  | 59.19               | 73.00   | 65.89   | 31  |
| 24               | 3.17    | 11.26   | 7.61    | 21  | 36.94                | 266.90  | 190.98  | 21  | 58.61               | 70.70   | 64.50   | 31  |
| 1.48             | 17.13   | 7.27    | 519     |     | 0.17                 | 358.70  | 207.72  | 1   | 55.65               | 91.00   | 70.06   | 744 |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: MET1

Period: 8/ 1/91 thru 8/31/91

Month and year of record: AUGUST, 91

| RELATIVE HUMIDITY |         |         |         |     | MAXIMUM WIND SPEED (MPH) |         |         |     | PRECIPITATION (IN) |         |       |     |
|-------------------|---------|---------|---------|-----|--------------------------|---------|---------|-----|--------------------|---------|-------|-----|
| HR                | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM                  | MAXIMUM | AVERAGE | OBS | MINIMUM            | MAXIMUM | TOTAL | OBS |
| 1                 | 35.38   | 99.00   | 67.59   | 31  | 6.00                     | 17.43   | 11.59   | 22  | 0.00               | 0.00    | 0.00  | 31  |
| 2                 | 37.41   | 99.20   | 69.38   | 31  | 5.23                     | 18.72   | 11.34   | 22  | 0.00               | 0.04    | 0.04  | 31  |
| 3                 | 38.10   | 99.20   | 70.59   | 31  | 5.77                     | 18.55   | 11.25   | 22  | 0.00               | 0.01    | 0.01  | 31  |
| 4                 | 42.19   | 99.20   | 72.36   | 31  | 6.03                     | 14.66   | 10.41   | 22  | 0.00               | 0.00    | 0.00  | 31  |
| 5                 | 43.56   | 99.30   | 73.77   | 31  | 5.50                     | 15.09   | 10.33   | 22  | 0.00               | 0.00    | 0.00  | 31  |
| 6                 | 44.84   | 99.20   | 74.01   | 31  | 3.23                     | 15.55   | 9.52    | 22  | 0.00               | 0.20    | 0.20  | 31  |
| 7                 | 45.40   | 98.90   | 73.96   | 31  | 3.50                     | 13.22   | 9.24    | 22  | 0.00               | 0.24    | 0.24  | 31  |
| 8                 | 40.12   | 98.70   | 67.13   | 31  | 6.37                     | 44.62   | 11.73   | 22  | 0.00               | 0.57    | 0.57  | 31  |
| 9                 | 34.11   | 98.40   | 59.37   | 31  | 5.01                     | 20.23   | 9.51    | 22  | 0.00               | 0.13    | 0.13  | 31  |
| 10                | 25.48   | 98.10   | 53.16   | 31  | 6.24                     | 17.92   | 10.28   | 22  | 0.00               | 0.05    | 0.05  | 31  |
| 11                | 18.52   | 97.00   | 48.15   | 31  | 6.97                     | 17.23   | 11.59   | 21  | 0.00               | 0.02    | 0.02  | 31  |
| 12                | 14.57   | 96.80   | 43.45   | 31  | 7.89                     | 19.80   | 12.67   | 22  | 0.00               | 0.04    | 0.05  | 31  |
| 13                | 12.29   | 97.40   | 39.18   | 31  | 9.74                     | 23.33   | 14.45   | 22  | 0.00               | 0.00    | 0.00  | 31  |
| 14                | 12.59   | 97.30   | 36.22   | 31  | 10.37                    | 43.28   | 17.29   | 21  | 0.00               | 0.01    | 0.01  | 31  |
| 15                | 13.04   | 96.90   | 35.10   | 31  | 10.06                    | 29.58   | 16.18   | 22  | 0.00               | 0.01    | 0.01  | 31  |
| 16                | 12.04   | 96.20   | 37.14   | 31  | 8.20                     | 30.63   | 16.69   | 22  | 0.00               | 0.04    | 0.07  | 31  |
| 17                | 13.48   | 95.10   | 40.81   | 31  | 7.00                     | 32.09   | 17.41   | 22  | 0.00               | 0.01    | 0.02  | 31  |
| 18                | 15.96   | 94.20   | 43.77   | 31  | 7.13                     | 25.79   | 15.45   | 21  | 0.00               | 1.15    | 1.15  | 31  |
| 19                | 23.99   | 99.30   | 48.51   | 31  | 6.30                     | 50.61   | 16.41   | 22  | 0.00               | 0.71    | 0.95  | 31  |
| 20                | 24.20   | 99.70   | 52.07   | 31  | 4.04                     | 36.51   | 13.41   | 22  | 0.00               | 0.44    | 0.52  | 31  |
| 21                | 25.00   | 99.80   | 56.85   | 31  | 4.37                     | 24.67   | 11.74   | 21  | 0.00               | 0.00    | 0.00  | 31  |
| 22                | 28.39   | 98.90   | 61.58   | 31  | 6.44                     | 20.15   | 12.02   | 21  | 0.00               | 0.00    | 0.00  | 31  |
| 23                | 32.71   | 96.80   | 63.58   | 31  | 5.07                     | 15.10   | 10.96   | 21  | 0.00               | 0.00    | 0.00  | 31  |
| 24                | 35.29   | 98.40   | 66.21   | 31  | 5.86                     | 15.90   | 10.96   | 21  | 0.00               | 0.00    | 0.00  | 31  |
|                   | 12.04   | 99.80   | 56.41   | 744 | 3.23                     | 50.61   | 12.60   | 521 | 0.00               | 1.15    | 0.01  | 744 |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: MET1

Period: 8/ 1/91 thru 8/31/91

Month and year of record: AUGUST, 91

| AIR TEMPERATURE 2 METERS (F) |         |         |         |     | TEMPERATURE DIFFERENCE (F) |         |         |     | SIGMA THETA (DEGREES) |         |         |     |
|------------------------------|---------|---------|---------|-----|----------------------------|---------|---------|-----|-----------------------|---------|---------|-----|
| HR                           | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM                    | MAXIMUM | AVERAGE | OBS | MINIMUM               | MAXIMUM | AVERAGE | OBS |
| 1                            | 56.22   | 73.50   | 62.12   | 31  | 0.09                       | 6.78    | 2.49    | 31  | 4.09                  | 28.29   | 8.86    | 22  |
| 2                            | 54.87   | 71.00   | 60.70   | 31  | 0.10                       | 8.31    | 2.86    | 31  | 3.39                  | 32.03   | 11.46   | 22  |
| 3                            | 54.29   | 69.78   | 59.74   | 31  | 0.05                       | 6.25    | 3.11    | 31  | 3.60                  | 22.17   | 9.85    | 22  |
| 4                            | 53.67   | 63.61   | 58.59   | 31  | 0.07                       | 6.24    | 3.11    | 31  | 2.96                  | 27.53   | 9.09    | 22  |
| 5                            | 52.62   | 63.33   | 57.92   | 31  | 0.07                       | 5.41    | 3.13    | 31  | 2.74                  | 15.10   | 8.13    | 22  |
| 6                            | 53.44   | 64.21   | 58.06   | 31  | 0.10                       | 4.98    | 2.69    | 31  | 2.35                  | 42.68   | 12.53   | 22  |
| 7                            | 56.33   | 67.53   | 61.44   | 31  | -0.29                      | 1.72    | 0.51    | 31  | 6.45                  | 35.80   | 14.45   | 22  |
| 8                            | 59.70   | 75.10   | 66.48   | 31  | -0.56                      | 0.16    | -0.20   | 30  | 8.37                  | 33.51   | 15.81   | 22  |
| 9                            | 59.79   | 79.50   | 70.79   | 31  | -0.95                      | 0.06    | -0.54   | 31  | 8.40                  | 45.87   | 21.82   | 22  |
| 10                           | 59.68   | 83.10   | 74.06   | 31  | -1.22                      | 0.07    | -0.64   | 31  | 9.03                  | 4949.10 | 253.34  | 22  |
| 11                           | 60.26   | 87.10   | 76.76   | 31  | -1.30                      | 0.02    | -0.72   | 31  | 9.76                  | 6061.30 | 303.14  | 22  |
| 12                           | 58.65   | 89.70   | 78.85   | 31  | -1.46                      | 0.19    | -0.75   | 31  | 10.80                 | 3499.70 | 188.62  | 22  |
| 13                           | 57.76   | 90.10   | 80.54   | 31  | -1.34                      | 0.11    | -0.71   | 31  | 11.82                 | 46.51   | 28.91   | 22  |
| 14                           | 57.78   | 90.30   | 81.23   | 31  | -1.19                      | 0.32    | -0.55   | 31  | 14.78                 | 44.61   | 26.94   | 21  |
| 15                           | 58.36   | 90.90   | 81.06   | 31  | -1.00                      | 2.89    | -0.24   | 31  | 8.44                  | 51.86   | 27.46   | 22  |
| 16                           | 59.19   | 91.10   | 79.37   | 31  | -0.80                      | 2.14    | 0.10    | 31  | 8.83                  | 50.10   | 23.25   | 22  |
| 17                           | 60.37   | 88.10   | 77.35   | 31  | -0.45                      | 1.64    | 0.45    | 31  | 8.32                  | 4949.10 | 240.27  | 22  |
| 18                           | 60.91   | 83.80   | 75.31   | 31  | 0.00                       | 3.25    | 0.89    | 31  | 7.26                  | 42.85   | 14.04   | 21  |
| 19                           | 60.60   | 80.50   | 71.89   | 31  | 0.09                       | 4.33    | 1.66    | 31  | 5.61                  | 49.43   | 14.22   | 22  |
| 20                           | 60.13   | 76.60   | 68.66   | 31  | 0.16                       | 6.20    | 2.64    | 31  | 4.59                  | 6061.30 | 289.07  | 22  |
| 21                           | 60.35   | 74.00   | 66.41   | 31  | 0.26                       | 6.66    | 2.74    | 31  | 3.95                  | 31.62   | 14.05   | 21  |
| 22                           | 57.69   | 73.90   | 65.39   | 31  | 0.41                       | 5.46    | 2.32    | 31  | 4.45                  | 30.87   | 9.81    | 21  |
| 23                           | 57.82   | 70.80   | 63.95   | 31  | 0.35                       | 7.29    | 2.58    | 31  | 3.88                  | 27.13   | 9.90    | 21  |
| 24                           | 56.65   | 69.40   | 62.52   | 31  | 0.08                       | 5.72    | 2.64    | 31  | 2.43                  | 27.11   | 10.55   | 21  |
|                              | 52.62   | 91.10   | 69.13   | 744 | -1.46                      | 8.31    | 1.23    | 743 | 2.35                  | 6061.30 | 65.82   | 522 |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: MET1

Period: 8/ 1/91 thru 8/31/91

Month and year of record: AUGUST, 91

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P-G STABILITY CLASSIFICATION

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| HR    | MINIMUM | MAXIMUM | AVERAGE | OBS |
|-------|---------|---------|---------|-----|
| 1     | 1.00    | 4.00    | 3.68    | 22  |
| 2     | 1.00    | 4.00    | 3.36    | 22  |
| 3     | 2.00    | 4.00    | 3.68    | 22  |
| 4     | 1.00    | 4.00    | 3.68    | 22  |
| 5     | 3.00    | 4.00    | 3.77    | 22  |
| 6     | 1.00    | 4.00    | 3.32    | 22  |
| 7     | 1.00    | 4.00    | 3.14    | 22  |
| 8     | 1.00    | 4.00    | 2.91    | 22  |
| 9     | 4.00    | 6.00    | 5.41    | 22  |
| 10    | 4.00    | 6.00    | 5.48    | 21  |
| 11    | 4.00    | 6.00    | 5.29    | 21  |
| 12    | 4.00    | 6.00    | 5.38    | 21  |
| 13    | 4.00    | 6.00    | 5.14    | 22  |
| 14    | 4.00    | 6.00    | 4.67    | 21  |
| 15    | 4.00    | 6.00    | 5.00    | 22  |
| 16    | 4.00    | 6.00    | 4.55    | 22  |
| 17    | 4.00    | 6.00    | 4.24    | 21  |
| 18    | 4.00    | 6.00    | 4.29    | 21  |
| 19    | 4.00    | 6.00    | 4.36    | 22  |
| 20    | 4.00    | 6.00    | 4.67    | 21  |
| 21    | 4.00    | 6.00    | 4.95    | 21  |
| 22    | 4.00    | 6.00    | 4.67    | 21  |
| 23    | 4.00    | 6.00    | 4.76    | 21  |
| 24    | 4.00    | 6.00    | 4.67    | 21  |
| <hr/> |         |         |         |     |
|       | 1.00    | 6.00    | 4.37    | 517 |

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WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: MET1

Period: 9/ 1/91 thru 9/30/91

Month and year of record: SEPTEMBER, 91

| WIND SPEED (MPH) |         |         |         |     | WIND DIRECTION (DEG) |         |         |     | AIR TEMPERATURE (F) |         |         |     |
|------------------|---------|---------|---------|-----|----------------------|---------|---------|-----|---------------------|---------|---------|-----|
| HR               | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM              | MAXIMUM | AVERAGE | OBS | MINIMUM             | MAXIMUM | AVERAGE | OBS |
| 1                | 3.65    | 12.50   | 7.84    | 24  | 22.71                | 301.80  | 194.34  | 24  | 41.93               | 65.29   | 55.57   | 30  |
| 2                | 3.12    | 12.65   | 7.60    | 24  | 61.04                | 355.60  | 195.58  | 24  | 40.50               | 64.91   | 54.37   | 30  |
| 3                | 1.58    | 16.32   | 7.24    | 24  | 40.23                | 329.80  | 201.84  | 24  | 39.28               | 65.07   | 53.54   | 30  |
| 4                | 0.73    | 17.88   | 6.56    | 24  | 74.60                | 256.20  | 193.76  | 24  | 39.07               | 64.77   | 52.93   | 30  |
| 5                | 2.33    | 14.78   | 6.58    | 24  | 21.38                | 359.30  | 186.97  | 24  | 39.07               | 63.36   | 52.03   | 30  |
| 6                | 3.14    | 11.29   | 6.92    | 24  | 40.56                | 359.30  | 186.39  | 24  | 37.32               | 61.75   | 51.20   | 30  |
| 7                | 2.89    | 13.05   | 6.87    | 24  | 0.68                 | 266.40  | 193.23  | 24  | 38.63               | 62.30   | 51.96   | 30  |
| 8                | 3.12    | 12.30   | 6.84    | 25  | 6.70                 | 348.70  | 224.56  | 25  | 40.79               | 67.81   | 56.34   | 30  |
| 9                | 2.73    | 12.64   | 6.88    | 25  | 0.41                 | 325.90  | 254.07  | 25  | 42.41               | 73.20   | 60.61   | 30  |
| 10               | 2.96    | 14.02   | 6.11    | 25  | 4.24                 | 338.30  | 340.61  | 25  | 45.00               | 77.20   | 64.34   | 30  |
| 11               | 2.74    | 16.08   | 5.94    | 25  | 5.43                 | 350.10  | 59.92   | 26  | 47.31               | 79.90   | 67.50   | 30  |
| 12               | 2.87    | 16.12   | 6.88    | 26  | 13.50                | 359.40  | 59.51   | 26  | 48.94               | 81.70   | 69.92   | 30  |
| 13               | 3.70    | 18.31   | 7.44    | 26  | 8.87                 | 346.60  | 53.41   | 26  | 49.82               | 82.60   | 71.77   | 30  |
| 14               | 3.99    | 18.93   | 8.37    | 25  | 1.99                 | 355.60  | 31.52   | 25  | 49.70               | 83.60   | 72.97   | 30  |
| 15               | 3.93    | 22.28   | 9.40    | 25  | 0.22                 | 343.30  | 20.97   | 25  | 51.37               | 84.70   | 73.45   | 30  |
| 16               | 3.36    | 19.60   | 10.46   | 25  | 5.22                 | 359.90  | 21.14   | 25  | 51.75               | 84.80   | 72.47   | 30  |
| 17               | 2.82    | 23.12   | 10.62   | 25  | 2.80                 | 357.30  | 21.58   | 25  | 51.70               | 83.50   | 71.13   | 30  |
| 18               | 2.72    | 21.91   | 10.00   | 25  | 11.40                | 351.50  | 24.38   | 25  | 50.60               | 80.20   | 67.81   | 30  |
| 19               | 1.91    | 18.43   | 8.98    | 25  | 5.57                 | 348.60  | 283.83  | 25  | 47.51               | 76.10   | 65.04   | 30  |
| 20               | 2.54    | 18.53   | 8.62    | 25  | 11.20                | 340.30  | 140.55  | 25  | 45.85               | 74.30   | 62.58   | 30  |
| 21               | 3.33    | 18.88   | 8.73    | 25  | 5.26                 | 359.80  | 182.58  | 25  | 45.41               | 70.90   | 60.40   | 30  |
| 22               | 2.31    | 19.38   | 8.18    | 25  | 9.82                 | 292.60  | 188.39  | 25  | 43.43               | 70.70   | 58.98   | 30  |
| 23               | 3.24    | 15.98   | 8.32    | 25  | 40.18                | 347.00  | 184.57  | 25  | 41.49               | 69.35   | 57.64   | 30  |
| 24               | 0.00    | 11.91   | 7.68    | 26  | 0.00                 | 347.10  | 184.50  | 26  | 0.00                | 67.40   | 54.47   | 31  |
|                  | 0.00    | 23.12   | 7.88    | 596 | 0.00                 | 359.90  | 180.07  | 1   | 0.00                | 84.80   | 61.62   | 721 |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: MET1

Period: 9/ 1/91 thru 9/30/91

Month and year of record: SEPTEMBER, 91

| RELATIVE HUMIDITY |         |         |         |     | MAXIMUM WIND SPEED (MPH) |         |         |     | PRECIPITATION (IN) |         |       |     |
|-------------------|---------|---------|---------|-----|--------------------------|---------|---------|-----|--------------------|---------|-------|-----|
| HR                | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM                  | MAXIMUM | AVERAGE | OBS | MINIMUM            | MAXIMUM | TOTAL | OBS |
| 1                 | 28.18   | 98.60   | 61.92   | 30  | 6.10                     | 18.33   | 11.47   | 24  | 0.00               | 0.13    | 0.13  | 30  |
| 2                 | 29.28   | 98.90   | 64.77   | 30  | 5.94                     | 20.47   | 10.74   | 24  | 0.00               | 0.02    | 0.02  | 30  |
| 3                 | 31.47   | 100.30  | 66.51   | 30  | 3.46                     | 26.29   | 10.58   | 24  | 0.00               | 0.01    | 0.01  | 30  |
| 4                 | 33.75   | 100.50  | 68.35   | 30  | 1.59                     | 27.76   | 10.10   | 24  | 0.00               | 0.00    | 0.00  | 30  |
| 5                 | 37.41   | 100.60  | 70.32   | 30  | 3.62                     | 26.65   | 9.67    | 24  | 0.00               | 0.01    | 0.01  | 30  |
| 6                 | 38.09   | 100.50  | 71.63   | 30  | 4.79                     | 18.85   | 10.02   | 24  | 0.00               | 0.00    | 0.00  | 30  |
| 7                 | 38.06   | 99.90   | 71.25   | 30  | 6.45                     | 26.09   | 10.81   | 24  | 0.00               | 0.01    | 0.01  | 30  |
| 8                 | 37.64   | 98.10   | 65.01   | 30  | 4.72                     | 19.06   | 11.10   | 25  | 0.00               | 0.00    | 0.00  | 30  |
| 9                 | 27.46   | 98.30   | 56.12   | 30  | 4.76                     | 22.38   | 11.65   | 25  | 0.00               | 0.05    | 0.05  | 30  |
| 10                | 18.12   | 98.30   | 49.25   | 30  | 6.01                     | 22.83   | 11.76   | 25  | 0.00               | 0.05    | 0.05  | 30  |
| 11                | 14.09   | 98.10   | 43.21   | 30  | 6.87                     | 32.81   | 12.12   | 26  | 0.00               | 0.06    | 0.06  | 30  |
| 12                | 12.26   | 97.40   | 38.07   | 30  | 6.19                     | 26.99   | 13.78   | 26  | 0.00               | 0.01    | 0.01  | 30  |
| 13                | 11.81   | 97.50   | 34.24   | 30  | 8.29                     | 28.33   | 15.67   | 26  | 0.00               | 0.01    | 0.01  | 30  |
| 14                | 11.56   | 96.70   | 31.52   | 30  | 7.29                     | 31.28   | 17.26   | 26  | 0.00               | 0.00    | 0.00  | 30  |
| 15                | 11.38   | 95.70   | 30.01   | 30  | 6.13                     | 34.28   | 17.72   | 25  | 0.00               | 0.01    | 0.01  | 30  |
| 16                | 11.19   | 93.80   | 31.46   | 30  | 8.72                     | 35.93   | 18.64   | 25  | 0.00               | 0.04    | 0.04  | 30  |
| 17                | 11.51   | 89.50   | 33.57   | 30  | 5.66                     | 37.61   | 18.60   | 25  | 0.00               | 0.03    | 0.03  | 30  |
| 18                | 12.22   | 89.90   | 38.31   | 30  | 5.54                     | 33.85   | 15.90   | 25  | 0.00               | 0.04    | 0.05  | 30  |
| 19                | 13.09   | 90.90   | 41.07   | 30  | 4.51                     | 28.49   | 15.18   | 24  | 0.00               | 0.00    | 0.00  | 30  |
| 20                | 14.31   | 91.40   | 44.68   | 30  | 5.16                     | 34.45   | 14.72   | 25  | 0.00               | 0.02    | 0.02  | 30  |
| 21                | 19.34   | 94.20   | 49.01   | 30  | 6.33                     | 32.45   | 13.72   | 25  | 0.00               | 0.07    | 0.07  | 30  |
| 22                | 24.36   | 94.50   | 52.81   | 30  | 4.60                     | 34.58   | 12.97   | 25  | 0.00               | 0.16    | 0.16  | 30  |
| 23                | 24.92   | 95.70   | 56.70   | 30  | 7.42                     | 25.63   | 12.35   | 25  | 0.00               | 0.13    | 0.13  | 30  |
| 24                | 0.00    | 97.40   | 59.01   | 31  | 0.00                     | 19.30   | 11.05   | 26  | 0.00               | 0.21    | 0.21  | 31  |
|                   | 0.00    | 100.60  | 51.21   | 721 | 0.00                     | 37.61   | 13.27   | 597 | 0.00               | 0.21    | 0.00  | 721 |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: MET1

Period: 9/ 1/91 thru 9/30/91

Month and year of record: SEPTEMBER, 91

| AIR TEMPERATURE 2 METERS (F) |         |         |         |     | TEMPERATURE DIFFERENCE (F) |         |         |     | SIGMA THETA (DEGREES) |         |         |     |
|------------------------------|---------|---------|---------|-----|----------------------------|---------|---------|-----|-----------------------|---------|---------|-----|
| HR                           | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM                    | MAXIMUM | AVERAGE | OBS | MINIMUM               | MAXIMUM | AVERAGE | OBS |
| 1                            | 38.11   | 64.86   | 52.86   | 30  | -0.11                      | 7.55    | 3.33    | 30  | 3.29                  | 30.15   | 9.03    | 24  |
| 2                            | 38.10   | 64.77   | 51.76   | 30  | -0.13                      | 7.59    | 3.25    | 30  | 3.16                  | 38.74   | 10.78   | 24  |
| 3                            | 37.19   | 65.14   | 50.77   | 30  | -0.05                      | 6.32    | 3.45    | 30  | 2.94                  | 30.42   | 9.41    | 24  |
| 4                            | 33.50   | 65.00   | 49.94   | 30  | -0.05                      | 9.90    | 3.65    | 30  | 2.88                  | 48.39   | 11.96   | 24  |
| 5                            | 34.73   | 63.54   | 49.13   | 30  | -0.04                      | 8.75    | 3.57    | 30  | 2.93                  | 34.79   | 10.05   | 24  |
| 6                            | 34.06   | 61.89   | 48.38   | 30  | -0.05                      | 7.74    | 3.42    | 30  | 3.38                  | 30.54   | 9.95    | 24  |
| 7                            | 37.12   | 61.67   | 51.03   | 30  | -0.33                      | 4.61    | 1.19    | 30  | 5.76                  | 28.28   | 10.93   | 24  |
| 8                            | 41.47   | 68.37   | 56.80   | 30  | -0.79                      | 1.20    | -0.26   | 30  | 7.89                  | 4949.10 | 211.51  | 25  |
| 9                            | 43.35   | 73.20   | 61.32   | 30  | -1.29                      | 0.02    | -0.66   | 30  | 6.93                  | 32.63   | 18.08   | 25  |
| 10                           | 45.21   | 77.20   | 65.06   | 30  | -1.48                      | 0.00    | -0.90   | 30  | 8.11                  | 48.75   | 29.18   | 25  |
| 11                           | 46.99   | 80.70   | 68.27   | 30  | -1.71                      | -0.07   | -1.06   | 30  | 9.70                  | 54.10   | 32.86   | 26  |
| 12                           | 48.96   | 82.50   | 70.85   | 30  | -1.96                      | -0.08   | -1.15   | 30  | 11.09                 | 56.83   | 32.73   | 26  |
| 13                           | 49.88   | 83.80   | 72.68   | 30  | -1.76                      | -0.17   | -1.08   | 30  | 12.59                 | 57.88   | 31.75   | 26  |
| 14                           | 50.35   | 84.90   | 73.90   | 30  | -1.92                      | -0.04   | -1.02   | 30  | 12.14                 | 4949.10 | 218.12  | 26  |
| 15                           | 51.96   | 85.50   | 74.18   | 30  | -1.71                      | 0.08    | -0.85   | 30  | 9.22                  | 51.53   | 25.87   | 25  |
| 16                           | 52.47   | 85.40   | 72.91   | 30  | -1.56                      | 1.04    | -0.43   | 30  | 8.27                  | 49.29   | 19.54   | 25  |
| 17                           | 52.37   | 84.00   | 71.24   | 30  | -0.83                      | 1.36    | 0.03    | 30  | 8.01                  | 47.47   | 16.28   | 25  |
| 18                           | 50.82   | 79.30   | 66.99   | 30  | -0.07                      | 2.94    | 1.29    | 30  | 5.76                  | 24.97   | 10.92   | 25  |
| 19                           | 46.56   | 73.90   | 63.05   | 30  | -0.04                      | 5.95    | 2.65    | 30  | 3.44                  | 25.84   | 11.55   | 25  |
| 20                           | 44.02   | 73.60   | 60.07   | 30  | -0.05                      | 12.81   | 3.10    | 30  | 2.00                  | 31.59   | 12.45   | 25  |
| 21                           | 42.13   | 69.64   | 58.27   | 30  | -0.03                      | 8.13    | 2.77    | 30  | 4.07                  | 24.58   | 10.77   | 25  |
| 22                           | 39.72   | 70.10   | 56.72   | 30  | 0.00                       | 7.91    | 2.95    | 30  | 3.44                  | 22.13   | 10.24   | 25  |
| 23                           | 38.40   | 69.06   | 55.24   | 30  | -0.09                      | 7.48    | 3.02    | 30  | 3.86                  | 23.84   | 9.64    | 25  |
| 24                           | 0.00    | 66.68   | 51.92   | 31  | -0.10                      | 7.67    | 3.15    | 31  | 0.00                  | 36.77   | 9.43    | 26  |
|                              | 0.00    | 85.50   | 60.54   | 721 | -1.96                      | 12.81   | 1.39    | 721 | 0.00                  | 4949.10 | 33.16   | 598 |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: MET1

Period: 9/ 1/91 thru 9/30/91

Month and year of record: SEPTEMBER, 91

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P-G STABILITY CLASSIFICATION

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| HR    | MINIMUM | MAXIMUM | AVERAGE | OBS |
|-------|---------|---------|---------|-----|
| 1     | 1.00    | 4.00    | 3.63    | 24  |
| 2     | 1.00    | 4.00    | 3.50    | 24  |
| 3     | 1.00    | 4.00    | 3.71    | 24  |
| 4     | 1.00    | 4.00    | 3.38    | 24  |
| 5     | 1.00    | 4.00    | 3.58    | 24  |
| 6     | 1.00    | 4.00    | 3.58    | 24  |
| 7     | 1.00    | 4.00    | 3.58    | 24  |
| 8     | 3.00    | 6.00    | 4.25    | 24  |
| 9     | 4.00    | 6.00    | 4.80    | 25  |
| 10    | 4.00    | 6.00    | 5.32    | 25  |
| 11    | 4.00    | 6.00    | 5.42    | 26  |
| 12    | 4.00    | 6.00    | 5.19    | 26  |
| 13    | 4.00    | 6.00    | 5.12    | 26  |
| 14    | 4.00    | 6.00    | 5.00    | 25  |
| 15    | 4.00    | 6.00    | 4.76    | 25  |
| 16    | 4.00    | 6.00    | 4.48    | 25  |
| 17    | 4.00    | 6.00    | 4.44    | 25  |
| 18    | 4.00    | 6.00    | 4.48    | 25  |
| 19    | 4.00    | 6.00    | 4.48    | 25  |
| 20    | 4.00    | 6.00    | 4.64    | 25  |
| 21    | 4.00    | 6.00    | 4.44    | 25  |
| 22    | 4.00    | 6.00    | 4.56    | 25  |
| 23    | 4.00    | 6.00    | 4.44    | 25  |
| 24    | 0.00    | 6.00    | 4.54    | 26  |
| <hr/> |         |         |         |     |
|       | 0.00    | 6.00    | 4.40    | 596 |

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WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: MET 2

Period: 1/25/91 thru 1/31/91

Month and year of record: JANUARY, 91

| WIND SPEED (MPH) |         |         |         |     | WIND DIRECTION (DEG) |         |         |     | SOLAR RADIATION (LY/HR) |         |         |     |
|------------------|---------|---------|---------|-----|----------------------|---------|---------|-----|-------------------------|---------|---------|-----|
| HR               | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM              | MAXIMUM | AVERAGE | OBS | MINIMUM                 | MAXIMUM | AVERAGE | OBS |
| 1                | 3.75    | 19.65   | 10.63   | 7   | 9.47                 | 298.50  | 209.55  | 7   | -0.01                   | 0.00    | -0.01   | 7   |
| 2                | 3.06    | 12.35   | 7.62    | 7   | 11.67                | 322.70  | 257.37  | 7   | -0.01                   | 0.00    | -0.00   | 7   |
| 3                | 3.96    | 10.46   | 7.15    | 7   | 12.38                | 355.20  | 314.81  | 7   | -0.01                   | 0.00    | -0.00   | 7   |
| 4                | 4.22    | 10.25   | 7.91    | 7   | 16.56                | 321.70  | 221.11  | 7   | -0.01                   | 0.00    | -0.00   | 7   |
| 5                | 3.90    | 12.17   | 8.15    | 7   | 31.13                | 299.90  | 239.92  | 7   | -0.01                   | 0.00    | -0.00   | 7   |
| 6                | 4.18    | 12.22   | 7.50    | 7   | 62.13                | 198.30  | 146.86  | 7   | -0.01                   | 0.00    | -0.00   | 7   |
| 7                | 2.61    | 12.42   | 7.33    | 7   | 90.60                | 220.60  | 157.63  | 7   | -0.01                   | 0.00    | -0.00   | 7   |
| 8                | 2.28    | 14.07   | 8.54    | 7   | 111.60               | 221.10  | 162.15  | 7   | 0.02                    | 0.09    | 0.06    | 7   |
| 9                | 3.10    | 11.20   | 7.42    | 7   | 94.20                | 207.60  | 163.18  | 7   | 0.25                    | 0.38    | 0.32    | 7   |
| 10               | 4.93    | 11.01   | 7.06    | 7   | 95.10                | 226.50  | 165.67  | 7   | 0.44                    | 0.68    | 0.56    | 7   |
| 11               | 3.92    | 17.67   | 8.17    | 7   | 94.00                | 315.70  | 150.88  | 7   | 0.44                    | 0.93    | 0.75    | 7   |
| 12               | 5.61    | 13.63   | 7.56    | 7   | 16.45                | 280.20  | 186.59  | 7   | 0.68                    | 1.01    | 0.85    | 7   |
| 13               | 3.72    | 14.04   | 7.74    | 7   | 44.19                | 296.40  | 315.12  | 7   | 0.75                    | 0.94    | 0.88    | 7   |
| 14               | 2.86    | 15.23   | 8.46    | 7   | 36.34                | 278.20  | 122.29  | 7   | 0.59                    | 0.82    | 0.74    | 7   |
| 15               | 2.70    | 12.40   | 6.72    | 7   | 53.59                | 294.70  | 130.78  | 7   | 0.33                    | 0.63    | 0.57    | 7   |
| 16               | 2.44    | 11.74   | 6.62    | 7   | 71.10                | 300.60  | 118.05  | 7   | 0.15                    | 0.39    | 0.30    | 7   |
| 17               | 2.46    | 11.70   | 6.69    | 7   | 71.20                | 324.00  | 84.92   | 7   | 0.05                    | 0.13    | 0.09    | 7   |
| 18               | 1.57    | 20.36   | 9.00    | 7   | 41.83                | 343.60  | 250.25  | 7   | 0.00                    | 0.00    | 0.00    | 7   |
| 19               | 2.13    | 22.77   | 8.60    | 7   | 16.31                | 314.00  | 293.58  | 7   | -0.01                   | 0.00    | -0.01   | 7   |
| 20               | 2.63    | 18.64   | 8.57    | 7   | 12.44                | 287.50  | 271.96  | 7   | -0.01                   | 0.00    | -0.01   | 7   |
| 21               | 2.10    | 20.07   | 10.20   | 7   | 5.90                 | 285.70  | 227.26  | 7   | -0.01                   | 0.00    | -0.01   | 7   |
| 22               | 2.68    | 18.39   | 9.17    | 7   | 24.01                | 272.40  | 246.50  | 7   | -0.01                   | 0.00    | -0.00   | 7   |
| 23               | 3.93    | 19.39   | 11.32   | 7   | 24.87                | 298.30  | 221.30  | 7   | -0.01                   | 0.00    | -0.00   | 7   |
| 24               | 3.86    | 21.87   | 10.68   | 7   | 32.38                | 291.20  | 186.92  | 7   | -0.01                   | 0.00    | -0.00   | 7   |
| 1.57             | 22.77   | 8.28    | 168     |     | 5.90                 | 355.20  | 184.19  | 1   | -0.01                   | 1.01    | 0.21    | 168 |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: MET 2

Period: 1/25/91 thru 1/31/91

Month and year of record: JANUARY, 91

| AIR TEMPERATURE (F) |         |         |         |     | MAXIMUM WIND SPEED (MPH) |         |         |     | PRECIPITATION (IN) |         |       |     |
|---------------------|---------|---------|---------|-----|--------------------------|---------|---------|-----|--------------------|---------|-------|-----|
| HR                  | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM                  | MAXIMUM | AVERAGE | OBS | MINIMUM            | MAXIMUM | TOTAL | OBS |
| 1                   | -2.33   | 38.19   | 19.74   | 7   | 7.43                     | 27.45   | 16.48   | 7   | 0.00               | 0.00    | 0.00  | 7   |
| 2                   | 0.86    | 38.26   | 20.02   | 7   | 5.79                     | 21.16   | 13.62   | 7   | 0.00               | 0.00    | 0.00  | 7   |
| 3                   | -0.50   | 42.44   | 19.76   | 7   | 6.60                     | 17.77   | 12.71   | 7   | 0.00               | 0.00    | 0.00  | 7   |
| 4                   | -3.06   | 37.31   | 18.73   | 7   | 6.53                     | 18.70   | 13.26   | 7   | 0.00               | 0.00    | 0.00  | 7   |
| 5                   | -5.39   | 34.82   | 19.03   | 7   | 7.49                     | 24.37   | 14.13   | 7   | 0.00               | 0.00    | 0.00  | 7   |
| 6                   | -1.08   | 34.49   | 17.35   | 7   | 6.91                     | 21.42   | 12.92   | 7   | 0.00               | 0.00    | 0.00  | 7   |
| 7                   | -1.30   | 40.75   | 16.99   | 7   | 3.95                     | 19.01   | 11.65   | 7   | 0.00               | 0.00    | 0.00  | 7   |
| 8                   | -1.93   | 29.22   | 15.11   | 7   | 2.96                     | 21.06   | 12.24   | 7   | 0.00               | 0.00    | 0.00  | 7   |
| 9                   | -1.46   | 35.33   | 16.60   | 7   | 6.18                     | 17.96   | 11.72   | 7   | 0.00               | 0.00    | 0.00  | 7   |
| 10                  | 0.26    | 41.31   | 21.32   | 7   | 6.93                     | 19.36   | 12.41   | 7   | 0.00               | 0.00    | 0.00  | 7   |
| 11                  | 2.14    | 44.50   | 26.21   | 7   | 6.13                     | 25.56   | 12.50   | 7   | 0.00               | 0.00    | 0.00  | 7   |
| 12                  | 3.52    | 46.78   | 27.95   | 7   | 8.28                     | 26.72   | 14.90   | 7   | 0.00               | 0.00    | 0.00  | 7   |
| 13                  | 4.51    | 49.15   | 29.78   | 7   | 7.82                     | 24.34   | 13.92   | 7   | 0.00               | 0.00    | 0.00  | 7   |
| 14                  | 6.07    | 47.76   | 31.01   | 7   | 5.91                     | 24.45   | 13.47   | 7   | 0.00               | 0.00    | 0.00  | 7   |
| 15                  | 8.67    | 47.39   | 31.81   | 7   | 5.41                     | 20.92   | 11.17   | 7   | 0.00               | 0.01    | 0.01  | 7   |
| 16                  | 9.40    | 45.16   | 31.25   | 7   | 5.39                     | 23.20   | 11.72   | 7   | 0.00               | 0.00    | 0.00  | 7   |
| 17                  | 9.02    | 43.68   | 29.46   | 7   | 3.63                     | 21.66   | 13.42   | 7   | 0.00               | 0.00    | 0.00  | 7   |
| 18                  | 7.61    | 41.67   | 27.42   | 7   | 4.91                     | 31.62   | 14.35   | 7   | 0.00               | 0.00    | 0.00  | 7   |
| 19                  | 6.04    | 39.15   | 25.88   | 7   | 4.40                     | 30.53   | 13.81   | 7   | 0.00               | 0.00    | 0.00  | 7   |
| 20                  | 2.31    | 40.04   | 24.63   | 7   | 4.99                     | 25.81   | 13.48   | 7   | 0.00               | 0.00    | 0.00  | 7   |
| 21                  | 1.67    | 39.04   | 24.00   | 7   | 4.97                     | 35.51   | 16.52   | 7   | 0.00               | 0.00    | 0.00  | 7   |
| 22                  | 1.41    | 40.76   | 23.46   | 7   | 6.34                     | 30.75   | 16.03   | 7   | 0.00               | 0.00    | 0.00  | 7   |
| 23                  | 2.24    | 41.97   | 23.60   | 7   | 7.63                     | 31.78   | 18.71   | 7   | 0.00               | 0.00    | 0.00  | 7   |
| 24                  | 3.62    | 38.34   | 22.82   | 7   | 7.04                     | 33.73   | 17.62   | 7   | 0.00               | 0.00    | 0.00  | 7   |
|                     | -5.39   | 49.15   | 23.50   | 168 | 2.96                     | 35.51   | 13.87   | 168 | 0.00               | 0.01    | 0.00  | 168 |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: MET 2

Period: 1/25/91 thru 1/31/91

Month and year of record: JANUARY, 91

| SIGMA THETA (DEGREES) |         |         |         |     | P-G STABILITY CLASSIFICATION |         |         |     |
|-----------------------|---------|---------|---------|-----|------------------------------|---------|---------|-----|
| HR                    | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM                      | MAXIMUM | AVERAGE | OBS |
| 1                     | 5.12    | 27.13   | 14.10   | 7   | 1.00                         | 4.00    | 3.00    | 7   |
| 2                     | 6.39    | 40.42   | 19.57   | 7   | 1.00                         | 4.00    | 2.86    | 7   |
| 3                     | 5.20    | 23.83   | 10.75   | 7   | 1.00                         | 4.00    | 3.43    | 7   |
| 4                     | 8.46    | 17.51   | 11.97   | 7   | 2.00                         | 4.00    | 3.43    | 7   |
| 5                     | 6.71    | 23.10   | 12.65   | 7   | 1.00                         | 4.00    | 3.29    | 7   |
| 6                     | 7.68    | 37.49   | 19.13   | 7   | 1.00                         | 4.00    | 2.71    | 7   |
| 7                     | 7.55    | 33.74   | 14.50   | 7   | 4.00                         | 6.00    | 4.43    | 7   |
| 8                     | 5.36    | 9.94    | 7.41    | 7   | 4.00                         | 5.00    | 4.29    | 7   |
| 9                     | 4.39    | 23.03   | 9.77    | 7   | 4.00                         | 6.00    | 4.57    | 7   |
| 10                    | 5.33    | 26.02   | 13.36   | 7   | 4.00                         | 6.00    | 4.71    | 7   |
| 11                    | 4.98    | 38.76   | 15.02   | 7   | 4.00                         | 6.00    | 4.71    | 7   |
| 12                    | 5.51    | 33.08   | 15.45   | 7   | 4.00                         | 6.00    | 4.57    | 7   |
| 13                    | 9.69    | 56.64   | 20.55   | 7   | 4.00                         | 6.00    | 4.57    | 7   |
| 14                    | 6.58    | 53.56   | 18.48   | 7   | 4.00                         | 6.00    | 4.71    | 7   |
| 15                    | 6.78    | 48.96   | 21.37   | 7   | 4.00                         | 6.00    | 5.00    | 7   |
| 16                    | 7.41    | 25.24   | 16.55   | 7   | 4.00                         | 6.00    | 5.00    | 7   |
| 17                    | 5.25    | 33.15   | 17.00   | 7   | 4.00                         | 6.00    | 4.71    | 7   |
| 18                    | 4.64    | 45.20   | 19.54   | 7   | 4.00                         | 6.00    | 4.86    | 7   |
| 19                    | 7.39    | 32.33   | 18.76   | 7   | 4.00                         | 6.00    | 4.86    | 7   |
| 20                    | 6.23    | 38.81   | 16.16   | 7   | 4.00                         | 6.00    | 4.71    | 7   |
| 21                    | 7.47    | 31.27   | 14.20   | 7   | 4.00                         | 6.00    | 4.57    | 7   |
| 22                    | 8.49    | 31.58   | 19.64   | 7   | 4.00                         | 6.00    | 5.00    | 7   |
| 23                    | 8.39    | 21.69   | 12.32   | 7   | 4.00                         | 6.00    | 4.29    | 7   |
| 24                    | 5.84    | 38.67   | 16.53   | 7   | 4.00                         | 6.00    | 4.43    | 7   |
|                       | 4.39    | 56.64   | 15.62   | 168 | 1.00                         | 6.00    | 4.28    | 168 |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: MET 2

Period: 2/ 1/91 thru 2/28/91

Month and year of record: FEBRUARY, 91

| WIND SPEED (MPH) |         |         |         |     | WIND DIRECTION (DEG) |         |         |     | SOLAR RADIATION (LY/HR) |         |         |     |
|------------------|---------|---------|---------|-----|----------------------|---------|---------|-----|-------------------------|---------|---------|-----|
| HR               | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM              | MAXIMUM | AVERAGE | OBS | MINIMUM                 | MAXIMUM | AVERAGE | OBS |
| 1                | 3.38    | 12.82   | 7.78    | 28  | 136.30               | 303.00  | 188.72  | 28  | -0.01                   | 0.00    | -0.01   | 28  |
| 2                | 1.72    | 13.98   | 7.86    | 28  | 59.67                | 343.50  | 189.15  | 28  | -0.01                   | 0.00    | -0.01   | 28  |
| 3                | 2.13    | 14.29   | 7.72    | 28  | 125.70               | 306.30  | 192.16  | 28  | -0.01                   | 0.00    | -0.01   | 28  |
| 4                | 3.00    | 16.72   | 7.51    | 28  | 128.80               | 337.90  | 192.07  | 28  | -0.01                   | 0.00    | -0.01   | 28  |
| 5                | 3.57    | 12.97   | 8.18    | 28  | 140.50               | 282.30  | 195.80  | 28  | -0.01                   | 0.00    | -0.01   | 28  |
| 6                | 3.63    | 12.44   | 8.35    | 28  | 90.70                | 270.10  | 198.18  | 28  | -0.01                   | 0.00    | -0.01   | 28  |
| 7                | 3.40    | 13.07   | 8.34    | 28  | 56.20                | 309.30  | 195.62  | 28  | -0.01                   | 0.01    | -0.00   | 28  |
| 8                | 3.38    | 12.35   | 7.52    | 28  | 63.25                | 338.40  | 199.33  | 28  | 0.01                    | 0.31    | 0.10    | 28  |
| 9                | 2.95    | 12.51   | 7.32    | 28  | 123.30               | 351.40  | 207.22  | 28  | 0.08                    | 0.59    | 0.32    | 28  |
| 10               | 2.36    | 13.85   | 7.63    | 27  | 6.79                 | 355.80  | 221.85  | 27  | 0.14                    | 0.77    | 0.53    | 28  |
| 11               | 3.52    | 21.49   | 8.03    | 27  | 0.41                 | 355.80  | 265.99  | 27  | 0.23                    | 0.97    | 0.68    | 28  |
| 12               | 2.54    | 21.81   | 7.86    | 28  | 2.15                 | 359.00  | 3.43    | 28  | 0.26                    | 1.11    | 0.77    | 28  |
| 13               | 3.15    | 23.26   | 7.74    | 28  | 4.86                 | 356.30  | 31.41   | 28  | 0.31                    | 1.16    | 0.79    | 28  |
| 14               | 2.22    | 25.44   | 8.23    | 28  | 3.07                 | 358.80  | 47.03   | 28  | 0.32                    | 1.04    | 0.75    | 28  |
| 15               | 4.38    | 25.56   | 9.16    | 28  | 1.26                 | 355.10  | 40.50   | 28  | 0.20                    | 0.89    | 0.58    | 28  |
| 16               | 4.13    | 20.58   | 8.96    | 28  | 2.10                 | 355.40  | 43.98   | 28  | 0.12                    | 0.66    | 0.40    | 28  |
| 17               | 2.49    | 21.00   | 7.72    | 28  | 5.52                 | 359.00  | 48.87   | 28  | 0.04                    | 0.26    | 0.15    | 28  |
| 18               | 1.24    | 16.07   | 6.45    | 28  | 3.48                 | 359.80  | 35.99   | 28  | -0.01                   | 0.04    | 0.01    | 28  |
| 19               | 1.96    | 16.28   | 6.73    | 28  | 0.02                 | 351.20  | 193.52  | 28  | -0.01                   | 0.00    | -0.01   | 28  |
| 20               | 1.49    | 15.89   | 6.72    | 28  | 4.14                 | 295.00  | 183.96  | 28  | -0.01                   | 0.00    | -0.01   | 28  |
| 21               | 2.61    | 10.52   | 6.53    | 28  | 40.70                | 279.60  | 169.72  | 28  | -0.01                   | 0.00    | -0.01   | 28  |
| 22               | 3.23    | 13.31   | 7.13    | 28  | 82.90                | 286.40  | 177.89  | 28  | -0.01                   | 0.00    | -0.01   | 28  |
| 23               | 2.81    | 16.58   | 7.65    | 28  | 67.30                | 333.30  | 179.89  | 28  | -0.01                   | 0.00    | -0.01   | 28  |
| 24               | 4.16    | 18.44   | 7.92    | 28  | 110.10               | 331.00  | 183.72  | 28  | -0.01                   | 0.00    | -0.01   | 28  |
| 1.24             | 25.56   | 7.71    | 670     |     | 0.02                 | 359.80  | 187.66  | 1   | -0.01                   | 1.16    | 0.21    | 672 |



WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: MET 2

Period: 2/ 1/91 thru 2/28/91

Month and year of record: FEBRUARY, 91

| AIR TEMPERATURE (F) |         |         |         |     | MAXIMUM WIND SPEED (MPH) |         |         |     | PRECIPITATION (IN) |         |       |     |
|---------------------|---------|---------|---------|-----|--------------------------|---------|---------|-----|--------------------|---------|-------|-----|
| HR                  | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM                  | MAXIMUM | AVERAGE | OBS | MINIMUM            | MAXIMUM | TOTAL | OBS |
| 1                   | 21.13   | 45.01   | 33.53   | 28  | 6.06                     | 21.01   | 11.67   | 28  | 0.00               | 0.00    | 0.00  | 28  |
| 2                   | 17.61   | 43.37   | 32.32   | 28  | 3.97                     | 19.85   | 11.53   | 28  | 0.00               | 0.00    | 0.00  | 28  |
| 3                   | 16.27   | 43.91   | 32.11   | 28  | 4.75                     | 21.37   | 11.64   | 28  | 0.00               | 0.00    | 0.00  | 28  |
| 4                   | 14.97   | 44.66   | 31.37   | 28  | 6.16                     | 22.41   | 11.69   | 28  | 0.00               | 0.00    | 0.00  | 28  |
| 5                   | 15.23   | 43.57   | 31.11   | 28  | 6.13                     | 18.88   | 12.09   | 28  | 0.00               | 0.00    | 0.00  | 28  |
| 6                   | 16.28   | 44.98   | 31.53   | 28  | 7.18                     | 18.02   | 11.98   | 28  | 0.00               | 0.00    | 0.00  | 28  |
| 7                   | 18.85   | 46.11   | 30.95   | 28  | 6.70                     | 25.55   | 12.53   | 28  | 0.00               | 0.00    | 0.00  | 28  |
| 8                   | 22.32   | 45.99   | 31.81   | 28  | 6.79                     | 17.93   | 11.61   | 28  | 0.00               | 0.00    | 0.00  | 28  |
| 9                   | 23.44   | 49.69   | 35.42   | 28  | 5.73                     | 19.71   | 11.32   | 28  | 0.00               | 0.00    | 0.00  | 28  |
| 10                  | 24.57   | 52.77   | 39.78   | 27  | 5.58                     | 24.63   | 12.45   | 27  | 0.00               | 0.00    | 0.00  | 28  |
| 11                  | 27.52   | 55.44   | 43.27   | 27  | 6.13                     | 33.80   | 13.19   | 27  | 0.00               | 0.00    | 0.00  | 28  |
| 12                  | 27.36   | 57.00   | 46.04   | 28  | 5.89                     | 30.95   | 13.58   | 28  | 0.00               | 0.00    | 0.00  | 28  |
| 13                  | 26.78   | 57.63   | 48.06   | 28  | 6.44                     | 34.12   | 13.54   | 28  | 0.00               | 0.00    | 0.00  | 28  |
| 14                  | 25.60   | 58.72   | 49.06   | 28  | 4.95                     | 34.74   | 14.98   | 28  | 0.00               | 0.00    | 0.00  | 28  |
| 15                  | 25.03   | 60.16   | 49.52   | 28  | 8.20                     | 38.29   | 15.85   | 28  | 0.00               | 0.00    | 0.00  | 28  |
| 16                  | 25.51   | 61.95   | 49.28   | 28  | 6.80                     | 29.70   | 14.93   | 28  | 0.00               | 0.00    | 0.00  | 28  |
| 17                  | 26.01   | 62.54   | 48.08   | 28  | 3.92                     | 34.77   | 12.90   | 28  | 0.00               | 0.00    | 0.00  | 28  |
| 18                  | 25.67   | 56.77   | 44.98   | 28  | 1.98                     | 25.88   | 10.41   | 28  | 0.00               | 0.00    | 0.00  | 28  |
| 19                  | 24.97   | 51.13   | 42.14   | 28  | 3.94                     | 26.21   | 11.10   | 28  | 0.00               | 0.00    | 0.00  | 28  |
| 20                  | 24.55   | 51.38   | 39.90   | 28  | 3.04                     | 22.20   | 10.94   | 28  | 0.00               | 0.00    | 0.00  | 28  |
| 21                  | 24.29   | 49.35   | 37.83   | 28  | 5.11                     | 20.98   | 10.95   | 28  | 0.00               | 0.00    | 0.00  | 28  |
| 22                  | 24.02   | 49.37   | 36.42   | 28  | 5.13                     | 24.42   | 11.00   | 28  | 0.00               | 0.00    | 0.00  | 28  |
| 23                  | 22.69   | 48.30   | 35.37   | 28  | 4.74                     | 32.59   | 11.54   | 28  | 0.00               | 0.00    | 0.00  | 28  |
| 24                  | 23.82   | 46.91   | 34.39   | 28  | 7.48                     | 30.70   | 12.14   | 28  | 0.00               | 0.00    | 0.00  | 28  |
| 14.97               | 62.54   | 38.92   | 670     |     | 1.98                     | 38.29   | 12.31   | 670 | 0.00               | 0.00    | 0.00  | 672 |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: MET 2

Period: 2/ 1/91 thru 2/28/91

Month and year of record: FEBRUARY, 91

| SIGMA THETA (DEGREES) |         |         |         |     | P-G STABILITY CLASSIFICATION |         |         |     |  |
|-----------------------|---------|---------|---------|-----|------------------------------|---------|---------|-----|--|
| HR                    | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM                      | MAXIMUM | AVERAGE | OBS |  |
| 1                     | 4.52    | 40.48   | 10.81   | 28  | 1.00                         | 4.00    | 3.68    | 28  |  |
| 2                     | 2.64    | 41.44   | 10.64   | 28  | 1.00                         | 4.00    | 3.68    | 28  |  |
| 3                     | 4.72    | 38.67   | 10.68   | 28  | 1.00                         | 4.00    | 3.57    | 28  |  |
| 4                     | 4.45    | 31.02   | 13.52   | 28  | 1.00                         | 5.00    | 3.11    | 28  |  |
| 5                     | 4.41    | 40.43   | 11.18   | 28  | 1.00                         | 4.00    | 3.50    | 28  |  |
| 6                     | 3.27    | 47.13   | 11.60   | 28  | 1.00                         | 4.00    | 3.50    | 28  |  |
| 7                     | 4.07    | 30.40   | 10.65   | 28  | 1.00                         | 5.00    | 3.71    | 28  |  |
| 8                     | 3.61    | 41.11   | 13.76   | 28  | 4.00                         | 6.00    | 4.64    | 28  |  |
| 9                     | 5.77    | 40.78   | 15.64   | 28  | 4.00                         | 6.00    | 4.57    | 28  |  |
| 10                    | 7.21    | 43.87   | 15.42   | 28  | 4.00                         | 6.00    | 4.41    | 27  |  |
| 11                    | 6.85    | 54.90   | 19.81   | 28  | 4.00                         | 6.00    | 4.89    | 27  |  |
| 12                    | 7.12    | 43.94   | 21.61   | 28  | 4.00                         | 6.00    | 5.04    | 28  |  |
| 13                    | 6.26    | 45.66   | 24.70   | 28  | 4.00                         | 6.00    | 5.00    | 28  |  |
| 14                    | 9.66    | 53.55   | 24.81   | 28  | 4.00                         | 6.00    | 4.89    | 28  |  |
| 15                    | 8.21    | 40.38   | 19.98   | 28  | 4.00                         | 6.00    | 4.71    | 28  |  |
| 16                    | 7.73    | 32.51   | 15.98   | 28  | 4.00                         | 6.00    | 4.43    | 28  |  |
| 17                    | 5.98    | 33.50   | 12.74   | 28  | 4.00                         | 6.00    | 4.57    | 28  |  |
| 18                    | 3.72    | 44.10   | 12.57   | 28  | 4.00                         | 6.00    | 4.79    | 28  |  |
| 19                    | 2.83    | 55.04   | 15.63   | 28  | 4.00                         | 6.00    | 4.89    | 28  |  |
| 20                    | 4.72    | 43.36   | 15.56   | 28  | 4.00                         | 6.00    | 4.68    | 28  |  |
| 21                    | 4.05    | 45.13   | 14.13   | 28  | 4.00                         | 6.00    | 4.96    | 28  |  |
| 22                    | 4.34    | 42.73   | 12.88   | 28  | 4.00                         | 6.00    | 4.61    | 28  |  |
| 23                    | 4.19    | 24.42   | 10.26   | 28  | 4.00                         | 6.00    | 4.57    | 28  |  |
| 24                    | 3.92    | 37.07   | 11.74   | 28  | 4.00                         | 6.00    | 4.79    | 28  |  |
|                       | 2.64    | 55.04   | 14.85   | 672 | 1.00                         | 6.00    | 4.38    | 670 |  |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: MET 2

Period: 3/ 1/91 thru 3/31/91

Month and year of record: MARCH, 91

| WIND SPEED (MPH) |         |         |         |     | WIND DIRECTION (DEG) |         |         |     | SOLAR RADIATION (LY/HR) |         |         |     |
|------------------|---------|---------|---------|-----|----------------------|---------|---------|-----|-------------------------|---------|---------|-----|
| HR               | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM              | MAXIMUM | AVERAGE | OBS | MINIMUM                 | MAXIMUM | AVERAGE | OBS |
| 1                | 2.30    | 25.11   | 9.31    | 31  | 14.21                | 354.10  | 213.61  | 31  | -0.01                   | 0.00    | -0.01   | 31  |
| 2                | 3.07    | 24.04   | 9.35    | 31  | 2.09                 | 343.90  | 212.05  | 31  | -0.01                   | 0.00    | -0.01   | 31  |
| 3                | 2.41    | 22.02   | 9.75    | 31  | 7.44                 | 343.80  | 219.36  | 31  | -0.01                   | 0.00    | -0.01   | 31  |
| 4                | 0.94    | 24.23   | 9.67    | 31  | 14.01                | 357.80  | 227.00  | 31  | -0.01                   | 0.00    | -0.01   | 31  |
| 5                | 2.05    | 20.76   | 8.80    | 31  | 39.91                | 357.20  | 239.87  | 31  | -0.01                   | 0.00    | -0.01   | 31  |
| 6                | 2.88    | 19.87   | 8.44    | 31  | 4.45                 | 350.40  | 234.63  | 31  | -0.01                   | 0.00    | -0.01   | 31  |
| 7                | 1.73    | 20.92   | 7.90    | 31  | 21.92                | 324.50  | 198.00  | 31  | 0.00                    | 0.20    | 0.05    | 31  |
| 8                | 1.81    | 18.05   | 8.11    | 31  | 5.13                 | 316.70  | 210.14  | 31  | 0.07                    | 0.52    | 0.26    | 31  |
| 9                | 2.13    | 22.99   | 8.80    | 31  | 10.66                | 345.70  | 231.22  | 31  | 0.09                    | 0.85    | 0.51    | 31  |
| 10               | 3.12    | 24.71   | 8.72    | 31  | 14.56                | 356.40  | 205.08  | 31  | 0.10                    | 1.07    | 0.75    | 31  |
| 11               | 2.40    | 23.02   | 9.49    | 31  | 5.31                 | 358.20  | 260.56  | 31  | 0.27                    | 1.26    | 0.99    | 31  |
| 12               | 3.98    | 22.24   | 10.64   | 31  | 3.45                 | 354.20  | 314.68  | 31  | 0.23                    | 1.38    | 1.09    | 31  |
| 13               | 4.78    | 26.26   | 11.11   | 31  | 3.90                 | 336.80  | 321.84  | 31  | 0.25                    | 1.37    | 1.04    | 31  |
| 14               | 5.15    | 27.87   | 12.44   | 31  | 0.37                 | 354.10  | 321.53  | 31  | 0.10                    | 1.26    | 0.98    | 31  |
| 15               | 4.34    | 28.92   | 12.61   | 31  | 5.38                 | 340.00  | 335.60  | 31  | 0.04                    | 1.13    | 0.79    | 31  |
| 16               | 4.63    | 29.09   | 12.64   | 31  | 0.56                 | 358.20  | 6.55    | 31  | 0.12                    | 0.77    | 0.53    | 31  |
| 17               | 2.49    | 27.13   | 13.45   | 31  | 18.05                | 346.90  | 19.74   | 31  | 0.04                    | 0.48    | 0.29    | 31  |
| 18               | 2.80    | 23.42   | 12.40   | 31  | 4.32                 | 321.20  | 64.38   | 31  | 0.01                    | 0.16    | 0.08    | 31  |
| 19               | 4.07    | 25.69   | 11.39   | 31  | 8.57                 | 302.80  | 130.33  | 31  | -0.01                   | 0.00    | -0.00   | 31  |
| 20               | 2.38    | 24.96   | 10.11   | 31  | 3.66                 | 325.90  | 173.40  | 31  | -0.01                   | 0.00    | -0.01   | 31  |
| 21               | 2.40    | 19.01   | 9.27    | 31  | 5.94                 | 347.80  | 194.71  | 31  | -0.01                   | 0.00    | -0.01   | 31  |
| 22               | 1.92    | 14.38   | 8.25    | 31  | 11.81                | 349.60  | 195.97  | 31  | -0.01                   | 0.00    | -0.01   | 31  |
| 23               | 2.91    | 22.17   | 8.49    | 31  | 7.70                 | 343.40  | 206.70  | 31  | -0.01                   | 0.00    | -0.01   | 31  |
| 24               | 3.94    | 20.94   | 9.53    | 31  | 13.70                | 328.30  | 212.48  | 31  | -0.01                   | 0.00    | -0.01   | 31  |
|                  | 0.94    | 29.09   | 10.03   | 744 | 0.37                 | 358.20  | 220.97  | 1   | -0.01                   | 1.38    | 0.30    | 744 |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: MET 2

Period: 3/ 1/91 thru 3/31/91

Month and year of record: MARCH, 91

| AIR TEMPERATURE (F) |         |         |         |     | MAXIMUM WIND SPEED (MPH) |         |         |     | PRECIPITATION (IN) |         |       |     |
|---------------------|---------|---------|---------|-----|--------------------------|---------|---------|-----|--------------------|---------|-------|-----|
| HR                  | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM                  | MAXIMUM | AVERAGE | OBS | MINIMUM            | MAXIMUM | TOTAL | OBS |
| 1                   | 22.69   | 55.95   | 36.18   | 31  | 3.81                     | 35.84   | 14.56   | 31  | 0.00               | 0.00    | 0.00  | 31  |
| 2                   | 21.71   | 55.50   | 36.10   | 31  | 5.71                     | 36.50   | 15.01   | 31  | 0.00               | 0.00    | 0.00  | 31  |
| 3                   | 21.27   | 54.37   | 35.67   | 31  | 6.23                     | 36.01   | 15.94   | 31  | 0.00               | 0.00    | 0.00  | 31  |
| 4                   | 21.32   | 53.40   | 35.27   | 31  | 2.25                     | 39.04   | 15.48   | 31  | 0.00               | 0.00    | 0.00  | 31  |
| 5                   | 21.16   | 52.51   | 34.68   | 31  | 4.56                     | 32.31   | 14.59   | 31  | 0.00               | 0.00    | 0.00  | 31  |
| 6                   | 20.49   | 52.36   | 34.11   | 31  | 4.68                     | 33.78   | 13.87   | 31  | 0.00               | 0.00    | 0.00  | 31  |
| 7                   | 19.61   | 52.57   | 33.58   | 31  | 3.71                     | 34.06   | 13.22   | 31  | 0.00               | 0.00    | 0.00  | 31  |
| 8                   | 19.45   | 53.72   | 36.53   | 31  | 4.52                     | 31.65   | 14.04   | 31  | 0.00               | 0.00    | 0.00  | 31  |
| 9                   | 20.47   | 55.61   | 40.62   | 31  | 4.81                     | 33.39   | 14.58   | 31  | 0.00               | 0.00    | 0.00  | 31  |
| 10                  | 23.65   | 58.04   | 43.49   | 31  | 7.43                     | 37.12   | 15.73   | 31  | 0.00               | 0.01    | 0.01  | 31  |
| 11                  | 27.87   | 60.82   | 46.46   | 31  | 6.61                     | 31.75   | 18.18   | 31  | 0.00               | 0.00    | 0.00  | 31  |
| 12                  | 31.34   | 64.44   | 48.58   | 31  | 9.15                     | 32.69   | 20.20   | 31  | 0.00               | 0.00    | 0.00  | 31  |
| 13                  | 32.79   | 66.14   | 49.93   | 31  | 10.20                    | 41.02   | 21.08   | 31  | 0.00               | 0.00    | 0.00  | 31  |
| 14                  | 32.46   | 67.33   | 50.82   | 31  | 11.06                    | 41.57   | 22.76   | 31  | 0.00               | 0.00    | 0.00  | 31  |
| 15                  | 33.78   | 68.24   | 51.40   | 31  | 9.39                     | 43.57   | 22.94   | 31  | 0.00               | 0.00    | 0.00  | 31  |
| 16                  | 34.10   | 68.21   | 51.25   | 31  | 12.35                    | 41.18   | 21.51   | 31  | 0.00               | 0.00    | 0.00  | 31  |
| 17                  | 35.02   | 66.09   | 50.57   | 31  | 6.15                     | 43.59   | 21.13   | 31  | 0.00               | 0.00    | 0.00  | 31  |
| 18                  | 32.26   | 64.24   | 48.36   | 31  | 5.49                     | 40.52   | 22.04   | 31  | 0.00               | 0.00    | 0.00  | 31  |
| 19                  | 30.58   | 61.57   | 44.47   | 31  | 6.77                     | 40.23   | 18.43   | 31  | 0.00               | 0.00    | 0.00  | 31  |
| 20                  | 29.55   | 58.90   | 41.63   | 31  | 5.36                     | 42.91   | 16.51   | 31  | 0.00               | 0.00    | 0.00  | 31  |
| 21                  | 27.24   | 59.41   | 40.20   | 31  | 3.37                     | 28.30   | 15.22   | 31  | 0.00               | 0.00    | 0.00  | 31  |
| 22                  | 26.00   | 56.65   | 39.43   | 31  | 3.46                     | 24.55   | 13.42   | 31  | 0.00               | 0.00    | 0.00  | 31  |
| 23                  | 24.78   | 56.27   | 38.79   | 31  | 7.34                     | 29.81   | 13.70   | 31  | 0.00               | 0.01    | 0.01  | 31  |
| 24                  | 23.74   | 56.94   | 37.79   | 31  | 6.63                     | 36.44   | 15.49   | 31  | 0.00               | 0.00    | 0.00  | 31  |
| 19.45               | 68.24   | 41.91   | 744     |     | 2.25                     | 43.59   | 17.07   | 744 | 0.00               | 0.01    | 0.00  | 744 |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: MET 2

Period: 3/ 1/91 thru 3/31/91

Month and year of record: MARCH, 91

| SIGMA THETA (DEGREES) |         |         |         |     | P-G STABILITY CLASSIFICATION |         |         |     |  |
|-----------------------|---------|---------|---------|-----|------------------------------|---------|---------|-----|--|
| HR                    | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM                      | MAXIMUM | AVERAGE | OBS |  |
| 1                     | 3.12    | 40.02   | 11.24   | 31  | 1.00                         | 4.00    | 3.61    | 31  |  |
| 2                     | 5.11    | 33.44   | 11.95   | 31  | 1.00                         | 4.00    | 3.52    | 31  |  |
| 3                     | 5.66    | 44.39   | 12.31   | 31  | 1.00                         | 4.00    | 3.48    | 31  |  |
| 4                     | 4.76    | 45.33   | 12.51   | 31  | 1.00                         | 5.00    | 3.55    | 31  |  |
| 5                     | 5.34    | 42.36   | 14.06   | 31  | 1.00                         | 4.00    | 3.23    | 31  |  |
| 6                     | 4.29    | 42.81   | 14.30   | 31  | 1.00                         | 4.00    | 3.16    | 31  |  |
| 7                     | 5.96    | 52.23   | 15.93   | 31  | 1.00                         | 4.00    | 3.03    | 31  |  |
| 8                     | 7.18    | 29.18   | 13.74   | 31  | 4.00                         | 6.00    | 4.48    | 31  |  |
| 9                     | 8.08    | 47.11   | 17.50   | 31  | 4.00                         | 6.00    | 4.68    | 31  |  |
| 10                    | 8.68    | 49.90   | 22.67   | 31  | 4.00                         | 6.00    | 4.77    | 31  |  |
| 11                    | 9.52    | 57.40   | 27.76   | 31  | 4.00                         | 6.00    | 4.84    | 31  |  |
| 12                    | 9.74    | 50.27   | 26.05   | 31  | 4.00                         | 6.00    | 4.71    | 31  |  |
| 13                    | 10.04   | 48.35   | 25.69   | 31  | 4.00                         | 6.00    | 4.58    | 31  |  |
| 14                    | 9.55    | 48.74   | 22.76   | 31  | 4.00                         | 6.00    | 4.48    | 31  |  |
| 15                    | 8.69    | 47.57   | 21.88   | 31  | 4.00                         | 6.00    | 4.42    | 31  |  |
| 16                    | 8.35    | 44.76   | 18.91   | 31  | 4.00                         | 6.00    | 4.35    | 31  |  |
| 17                    | 7.50    | 31.69   | 14.52   | 31  | 4.00                         | 6.00    | 4.32    | 31  |  |
| 18                    | 7.21    | 38.71   | 14.25   | 31  | 4.00                         | 6.00    | 4.29    | 31  |  |
| 19                    | 5.66    | 25.69   | 10.28   | 31  | 4.00                         | 6.00    | 4.26    | 31  |  |
| 20                    | 5.93    | 45.39   | 11.94   | 31  | 4.00                         | 6.00    | 4.52    | 31  |  |
| 21                    | 4.23    | 31.28   | 12.30   | 31  | 4.00                         | 6.00    | 4.39    | 31  |  |
| 22                    | 4.29    | 56.06   | 14.33   | 31  | 4.00                         | 6.00    | 4.77    | 31  |  |
| 23                    | 4.34    | 31.67   | 10.94   | 31  | 4.00                         | 6.00    | 4.52    | 31  |  |
| 24                    | 4.06    | 32.38   | 10.90   | 31  | 4.00                         | 6.00    | 4.29    | 31  |  |
|                       | 3.12    | 57.40   | 16.20   | 744 | 1.00                         | 6.00    | 4.18    | 744 |  |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: MET 2

Period: 4/ 1/91 thru 4/30/91

Month and year of record: APRIL, 91

| WIND SPEED (MPH) |         |         |         |     | WIND DIRECTION (DEG) |         |         |     | SOLAR RADIATION (LY/HR) |         |         |     |
|------------------|---------|---------|---------|-----|----------------------|---------|---------|-----|-------------------------|---------|---------|-----|
| HR               | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM              | MAXIMUM | AVERAGE | OBS | MINIMUM                 | MAXIMUM | AVERAGE | OBS |
| 1                | 3.55    | 16.67   | 8.17    | 29  | 16.44                | 354.60  | 200.73  | 29  | -0.01                   | 0.00    | -0.00   | 15  |
| 2                | 2.70    | 16.97   | 7.78    | 30  | 32.22                | 353.50  | 231.74  | 30  | -0.01                   | 0.00    | -0.00   | 16  |
| 3                | 2.82    | 14.16   | 7.12    | 30  | 15.56                | 347.60  | 221.33  | 30  | -0.01                   | 0.00    | -0.00   | 16  |
| 4                | 2.60    | 14.94   | 6.75    | 30  | 75.30                | 359.60  | 241.29  | 30  | -0.01                   | 0.00    | -0.01   | 16  |
| 5                | 1.58    | 14.34   | 6.30    | 30  | 12.18                | 357.10  | 236.34  | 30  | -0.01                   | 0.00    | -0.00   | 16  |
| 6                | 2.65    | 13.39   | 7.09    | 29  | 38.09                | 357.00  | 232.73  | 29  | 0.00                    | 0.06    | 0.03    | 16  |
| 7                | 2.98    | 13.90   | 7.03    | 29  | 9.47                 | 344.10  | 231.96  | 29  | 0.03                    | 0.35    | 0.17    | 16  |
| 8                | 2.87    | 22.05   | 8.00    | 29  | 0.22                 | 343.70  | 270.78  | 29  | 0.06                    | 0.70    | 0.42    | 16  |
| 9                | 2.68    | 15.39   | 7.59    | 30  | 9.60                 | 358.50  | 269.39  | 30  | 0.12                    | 1.10    | 0.67    | 16  |
| 10               | 2.80    | 18.98   | 7.46    | 30  | 1.61                 | 351.10  | 88.40   | 30  | 0.24                    | 1.32    | 0.88    | 16  |
| 11               | 4.24    | 18.41   | 8.11    | 30  | 8.95                 | 358.20  | 89.47   | 30  | 0.46                    | 1.59    | 1.21    | 17  |
| 12               | 4.32    | 19.69   | 8.71    | 30  | 5.90                 | 359.90  | 59.60   | 30  | 0.37                    | 1.65    | 1.30    | 17  |
| 13               | 4.19    | 20.32   | 9.29    | 30  | 1.76                 | 356.60  | 71.46   | 30  | 0.51                    | 1.59    | 1.18    | 16  |
| 14               | 4.52    | 24.14   | 10.44   | 30  | 3.56                 | 357.80  | 30.21   | 30  | 0.19                    | 1.47    | 0.95    | 16  |
| 15               | 3.94    | 24.91   | 10.88   | 29  | 13.83                | 353.20  | 36.94   | 29  | 0.14                    | 1.26    | 0.82    | 15  |
| 16               | 3.88    | 24.42   | 10.82   | 29  | 2.60                 | 359.60  | 40.79   | 29  | 0.15                    | 0.99    | 0.64    | 15  |
| 17               | 4.17    | 24.01   | 10.69   | 29  | 7.70                 | 357.70  | 35.35   | 29  | 0.07                    | 0.63    | 0.40    | 15  |
| 18               | 4.82    | 22.21   | 10.25   | 29  | 3.17                 | 356.50  | 32.38   | 29  | 0.03                    | 0.36    | 0.17    | 15  |
| 19               | 3.77    | 17.23   | 9.66    | 29  | 4.90                 | 350.30  | 29.46   | 29  | 0.00                    | 0.04    | 0.02    | 15  |
| 20               | 4.48    | 19.96   | 9.39    | 29  | 3.31                 | 353.50  | 250.70  | 29  | -0.01                   | 0.00    | -0.01   | 15  |
| 21               | 2.94    | 19.41   | 8.56    | 29  | 9.24                 | 354.90  | 189.54  | 29  | -0.01                   | 0.00    | -0.00   | 15  |
| 22               | 3.00    | 22.17   | 8.84    | 29  | 7.04                 | 343.60  | 180.77  | 29  | -0.01                   | 0.00    | -0.00   | 15  |
| 23               | 3.17    | 21.04   | 8.63    | 29  | 17.42                | 359.40  | 181.59  | 29  | -0.01                   | 0.00    | -0.00   | 15  |
| 24               | 2.27    | 15.36   | 8.04    | 29  | 18.17                | 345.80  | 180.49  | 29  | -0.01                   | 0.00    | -0.00   | 15  |
| 1.58             | 24.91   | 8.56    | 706     |     | 0.22                 | 359.90  | 208.12  | 1   | -0.01                   | 1.65    | 0.38    | 375 |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: MET 2

Period: 4/ 1/91 thru 4/30/91

Month and year of record: APRIL, 91

| AIR TEMPERATURE (F) |         |         |         |     | MAXIMUM WIND SPEED (MPH) |         |         |     | PRECIPITATION (IN) |         |       |     |
|---------------------|---------|---------|---------|-----|--------------------------|---------|---------|-----|--------------------|---------|-------|-----|
| HR                  | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM                  | MAXIMUM | AVERAGE | OBS | MINIMUM            | MAXIMUM | TOTAL | OBS |
| 1                   | 26.31   | 59.41   | 41.62   | 29  | 6.12                     | 22.56   | 12.79   | 29  | 0.00               | 0.08    | 0.12  | 30  |
| 2                   | 24.63   | 59.97   | 40.57   | 30  | 5.51                     | 22.21   | 11.90   | 30  | 0.00               | 0.03    | 0.05  | 30  |
| 3                   | 22.77   | 61.35   | 39.85   | 30  | 4.69                     | 26.11   | 11.49   | 30  | 0.00               | 0.04    | 0.09  | 30  |
| 4                   | 19.81   | 56.38   | 38.77   | 30  | 4.65                     | 25.25   | 11.01   | 30  | 0.00               | 0.05    | 0.10  | 30  |
| 5                   | 17.09   | 55.52   | 37.49   | 30  | 3.44                     | 24.97   | 10.24   | 30  | 0.00               | 0.03    | 0.05  | 30  |
| 6                   | 17.62   | 54.29   | 37.18   | 30  | 6.00                     | 22.80   | 11.24   | 29  | 0.00               | 0.04    | 0.07  | 30  |
| 7                   | 19.48   | 49.76   | 38.05   | 30  | 5.33                     | 25.40   | 11.56   | 29  | 0.00               | 0.02    | 0.02  | 30  |
| 8                   | 23.05   | 56.05   | 41.06   | 30  | 5.26                     | 32.43   | 13.09   | 29  | 0.00               | 0.00    | 0.00  | 30  |
| 9                   | 27.11   | 64.80   | 44.24   | 30  | 6.03                     | 25.96   | 12.40   | 30  | 0.00               | 0.00    | 0.00  | 30  |
| 10                  | 30.89   | 70.50   | 47.18   | 30  | 6.03                     | 29.39   | 13.55   | 30  | 0.00               | 0.00    | 0.00  | 30  |
| 11                  | 31.68   | 74.00   | 49.70   | 30  | 7.53                     | 30.83   | 15.28   | 30  | 0.00               | 0.00    | 0.00  | 30  |
| 12                  | 30.78   | 76.10   | 51.56   | 30  | 7.24                     | 30.38   | 16.10   | 30  | 0.00               | 0.00    | 0.00  | 30  |
| 13                  | 31.80   | 77.80   | 52.94   | 30  | 8.92                     | 34.69   | 17.46   | 30  | 0.00               | 0.00    | 0.00  | 30  |
| 14                  | 30.43   | 78.70   | 53.71   | 30  | 10.81                    | 35.18   | 19.98   | 30  | 0.00               | 0.00    | 0.00  | 30  |
| 15                  | 30.82   | 78.90   | 54.22   | 29  | 9.31                     | 37.64   | 19.52   | 29  | 0.00               | 0.00    | 0.00  | 30  |
| 16                  | 30.98   | 78.30   | 54.49   | 29  | 10.10                    | 36.06   | 19.23   | 29  | 0.00               | 0.00    | 0.00  | 30  |
| 17                  | 30.54   | 78.30   | 54.37   | 29  | 8.61                     | 35.48   | 18.49   | 29  | 0.00               | 0.00    | 0.00  | 30  |
| 18                  | 29.71   | 73.70   | 53.05   | 29  | 8.01                     | 31.50   | 16.70   | 29  | 0.00               | 0.00    | 0.00  | 30  |
| 19                  | 29.15   | 73.30   | 50.64   | 29  | 6.44                     | 27.89   | 15.58   | 29  | 0.00               | 0.00    | 0.00  | 30  |
| 20                  | 28.06   | 72.10   | 48.16   | 29  | 9.33                     | 35.32   | 16.68   | 29  | 0.00               | 0.01    | 0.02  | 30  |
| 21                  | 26.29   | 68.24   | 45.93   | 29  | 4.95                     | 33.80   | 14.40   | 29  | 0.00               | 0.00    | 0.00  | 30  |
| 22                  | 26.04   | 64.07   | 44.58   | 29  | 4.33                     | 35.62   | 14.44   | 29  | 0.00               | 0.00    | 0.00  | 30  |
| 23                  | 26.30   | 59.87   | 43.02   | 29  | 4.71                     | 28.94   | 14.43   | 29  | 0.00               | 0.03    | 0.03  | 30  |
| 24                  | 26.72   | 60.68   | 41.54   | 29  | 4.46                     | 28.30   | 12.59   | 29  | 0.00               | 0.06    | 0.08  | 30  |
| 17.09               | 78.90   | 45.96   | 709     |     | 3.44                     | 37.64   | 14.58   | 706 | 0.00               | 0.08    | 0.00  | 720 |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: MET 2

Period: 4/ 1/91 thru 4/30/91

Month and year of record: APRIL, 91

| SIGMA THETA (DEGREES) |         |         |         |     | P-G STABILITY CLASSIFICATION |         |         |     |
|-----------------------|---------|---------|---------|-----|------------------------------|---------|---------|-----|
| HR                    | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM                      | MAXIMUM | AVERAGE | OBS |
| 1                     | 4.01    | 31.16   | 11.99   | 29  | 1.00                         | 4.00    | 3.28    | 29  |
| 2                     | 4.03    | 37.89   | 13.30   | 30  | 1.00                         | 4.00    | 3.23    | 30  |
| 3                     | 2.81    | 40.57   | 14.17   | 30  | 1.00                         | 4.00    | 3.23    | 30  |
| 4                     | 3.96    | 45.37   | 15.81   | 30  | 1.00                         | 4.00    | 2.97    | 30  |
| 5                     | 2.64    | 49.79   | 15.89   | 30  | 1.00                         | 4.00    | 3.10    | 30  |
| 6                     | 3.92    | 30.32   | 11.59   | 29  | 1.00                         | 4.00    | 3.41    | 29  |
| 7                     | 4.21    | 30.79   | 12.31   | 29  | 1.00                         | 4.00    | 3.45    | 29  |
| 8                     | 7.82    | 25.79   | 14.53   | 29  | 4.00                         | 6.00    | 4.55    | 29  |
| 9                     | 5.87    | 45.03   | 18.39   | 30  | 4.00                         | 6.00    | 4.63    | 30  |
| 10                    | 9.43    | 53.02   | 23.42   | 30  | 4.00                         | 6.00    | 4.80    | 30  |
| 11                    | 6.76    | 46.49   | 25.66   | 30  | 4.00                         | 6.00    | 4.93    | 30  |
| 12                    | 7.55    | 48.81   | 26.71   | 30  | 4.00                         | 6.00    | 5.00    | 30  |
| 13                    | 10.62   | 57.65   | 28.24   | 30  | 4.00                         | 6.00    | 4.83    | 30  |
| 14                    | 9.56    | 49.76   | 25.10   | 30  | 4.00                         | 6.00    | 4.63    | 30  |
| 15                    | 10.27   | 50.66   | 24.00   | 29  | 4.00                         | 6.00    | 4.55    | 29  |
| 16                    | 8.97    | 40.53   | 20.40   | 29  | 4.00                         | 6.00    | 4.55    | 29  |
| 17                    | 8.93    | 40.96   | 18.29   | 29  | 4.00                         | 6.00    | 4.45    | 29  |
| 18                    | 5.83    | 26.47   | 12.93   | 29  | 4.00                         | 6.00    | 4.34    | 29  |
| 19                    | 5.82    | 22.87   | 10.27   | 29  | 4.00                         | 6.00    | 4.38    | 29  |
| 20                    | 4.59    | 32.05   | 12.66   | 28  | 4.00                         | 6.00    | 4.41    | 29  |
| 21                    | 4.84    | 26.52   | 11.73   | 29  | 4.00                         | 6.00    | 4.52    | 29  |
| 22                    | 4.80    | 39.51   | 11.65   | 29  | 4.00                         | 6.00    | 4.66    | 29  |
| 23                    | 5.41    | 31.32   | 12.49   | 29  | 4.00                         | 5.00    | 4.28    | 29  |
| 24                    | 4.51    | 32.55   | 11.59   | 29  | 4.00                         | 6.00    | 4.55    | 29  |
| 2.64                  | 57.65   | 16.86   | 705     |     | 1.00                         | 6.00    | 4.20    | 706 |



WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: MET 2

Period: 5/ 1/91 thru 5/31/91

Month and year of record: MAY, 91

| WIND SPEED (MPH) |         |         |         |     | WIND DIRECTION (DEG) |         |         |     | SOLAR RADIATION (LY/HR) |         |         |     |
|------------------|---------|---------|---------|-----|----------------------|---------|---------|-----|-------------------------|---------|---------|-----|
| HR               | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM              | MAXIMUM | AVERAGE | OBS | MINIMUM                 | MAXIMUM | AVERAGE | OBS |
| 1                | 1.67    | 25.63   | 8.41    | 31  | 8.34                 | 325.60  | 194.44  | 30  | -0.01                   | 0.00    | -0.01   | 31  |
| 2                | 1.97    | 26.11   | 8.05    | 31  | 3.47                 | 291.20  | 188.25  | 30  | -0.01                   | 0.00    | -0.01   | 31  |
| 3                | 1.60    | 20.72   | 7.97    | 31  | 17.07                | 329.00  | 187.47  | 30  | -0.01                   | 0.00    | -0.01   | 31  |
| 4                | 1.21    | 15.39   | 7.47    | 31  | 4.02                 | 359.00  | 196.60  | 30  | -0.01                   | 0.00    | -0.01   | 31  |
| 5                | 1.50    | 17.85   | 7.19    | 31  | 1.45                 | 357.70  | 199.72  | 30  | -0.01                   | 0.01    | -0.00   | 31  |
| 6                | 2.89    | 21.85   | 7.14    | 31  | 14.27                | 340.60  | 184.03  | 30  | 0.01                    | 0.17    | 0.09    | 31  |
| 7                | 1.75    | 18.68   | 7.25    | 31  | 7.56                 | 346.00  | 189.82  | 30  | 0.02                    | 0.47    | 0.32    | 31  |
| 8                | 2.14    | 24.49   | 8.42    | 31  | 3.17                 | 345.60  | 210.38  | 30  | 0.07                    | 0.78    | 0.60    | 31  |
| 9                | 2.54    | 24.58   | 8.42    | 31  | 1.45                 | 356.10  | 218.53  | 29  | 0.12                    | 1.10    | 0.82    | 31  |
| 10               | 2.51    | 21.77   | 8.59    | 31  | 4.52                 | 351.90  | 56.94   | 29  | 0.14                    | 1.37    | 1.01    | 31  |
| 11               | 3.02    | 22.14   | 9.17    | 31  | 0.01                 | 349.50  | 73.30   | 29  | 0.52                    | 1.56    | 1.23    | 31  |
| 12               | 3.23    | 23.93   | 10.30   | 31  | 3.52                 | 354.10  | 85.65   | 29  | 0.33                    | 1.67    | 1.34    | 31  |
| 13               | 4.52    | 24.41   | 11.95   | 31  | 0.51                 | 358.90  | 106.28  | 29  | 0.15                    | 1.65    | 1.22    | 31  |
| 14               | 3.17    | 26.39   | 13.05   | 31  | 0.13                 | 352.00  | 110.53  | 29  | 0.04                    | 1.53    | 1.14    | 31  |
| 15               | 3.82    | 32.38   | 13.56   | 31  | 11.72                | 347.20  | 126.84  | 29  | 0.03                    | 1.31    | 0.88    | 31  |
| 16               | 5.00    | 31.50   | 14.07   | 31  | 2.72                 | 347.90  | 82.24   | 29  | 0.05                    | 1.05    | 0.70    | 31  |
| 17               | 5.07    | 25.73   | 13.96   | 31  | 6.15                 | 320.70  | 103.50  | 29  | 0.06                    | 0.77    | 0.44    | 31  |
| 18               | 4.26    | 26.62   | 13.92   | 31  | 28.68                | 358.10  | 96.98   | 29  | 0.04                    | 0.41    | 0.22    | 31  |
| 19               | 3.97    | 21.26   | 11.62   | 31  | 4.08                 | 359.60  | 98.89   | 29  | 0.00                    | 0.12    | 0.05    | 31  |
| 20               | 3.30    | 26.57   | 11.21   | 31  | 4.03                 | 332.70  | 96.64   | 29  | -0.01                   | 0.00    | -0.00   | 31  |
| 21               | 3.70    | 30.15   | 10.59   | 31  | 2.84                 | 351.60  | 121.37  | 29  | -0.01                   | 0.00    | -0.01   | 31  |
| 22               | 3.94    | 31.13   | 9.92    | 31  | 7.63                 | 340.80  | 170.18  | 29  | -0.01                   | 0.00    | -0.01   | 31  |
| 23               | 3.38    | 29.95   | 9.67    | 31  | 3.95                 | 356.10  | 210.46  | 29  | -0.01                   | 0.00    | -0.01   | 31  |
| 24               | 3.40    | 29.68   | 9.02    | 31  | 0.89                 | 336.00  | 207.26  | 29  | -0.01                   | 0.00    | -0.01   | 31  |
| 1.21             | 32.38   | 10.04   | 744     |     | 0.01                 | 359.60  | 155.42  | 1   | -0.01                   | 1.67    | 0.42    | 744 |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: MET 2

Period: 5/ 1/91 thru 5/31/91

Month and year of record: MAY, 91

| AIR TEMPERATURE (F) |         |         |         |     | MAXIMUM WIND SPEED (MPH) |         |         |     | PRECIPITATION (IN) |         |       |     |
|---------------------|---------|---------|---------|-----|--------------------------|---------|---------|-----|--------------------|---------|-------|-----|
| HR                  | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM                  | MAXIMUM | AVERAGE | OBS | MINIMUM            | MAXIMUM | TOTAL | OBS |
| 1                   | 35.29   | 66.80   | 52.26   | 31  | 4.21                     | 37.44   | 13.65   | 31  | 0.00               | 0.00    | 0.00  | 31  |
| 2                   | 35.28   | 66.19   | 51.39   | 31  | 3.81                     | 39.76   | 13.43   | 31  | 0.00               | 0.00    | 0.00  | 31  |
| 3                   | 32.71   | 64.71   | 50.69   | 31  | 3.09                     | 32.81   | 13.04   | 31  | 0.00               | 0.00    | 0.00  | 31  |
| 4                   | 32.79   | 63.21   | 50.15   | 31  | 3.02                     | 26.70   | 12.41   | 31  | 0.00               | 0.00    | 0.00  | 31  |
| 5                   | 31.02   | 63.01   | 48.92   | 31  | 2.83                     | 28.24   | 11.55   | 31  | 0.00               | 0.06    | 0.06  | 31  |
| 6                   | 29.98   | 63.93   | 48.85   | 31  | 4.87                     | 31.18   | 11.92   | 31  | 0.00               | 0.00    | 0.00  | 31  |
| 7                   | 32.69   | 64.55   | 51.45   | 31  | 4.02                     | 29.33   | 12.56   | 31  | 0.00               | 0.01    | 0.01  | 31  |
| 8                   | 36.64   | 68.62   | 54.75   | 31  | 4.63                     | 33.68   | 13.44   | 31  | 0.00               | 0.02    | 0.02  | 31  |
| 9                   | 40.20   | 71.50   | 57.09   | 31  | 5.27                     | 37.82   | 14.10   | 31  | 0.00               | 0.02    | 0.02  | 31  |
| 10                  | 41.78   | 75.60   | 59.75   | 31  | 4.61                     | 29.71   | 14.95   | 31  | 0.00               | 0.00    | 0.00  | 31  |
| 11                  | 43.70   | 79.60   | 62.40   | 31  | 6.07                     | 32.54   | 16.88   | 31  | 0.00               | 0.00    | 0.00  | 31  |
| 12                  | 43.28   | 81.80   | 64.79   | 31  | 7.15                     | 40.53   | 19.57   | 31  | 0.00               | 0.00    | 0.00  | 31  |
| 13                  | 41.02   | 83.20   | 66.42   | 31  | 10.20                    | 52.34   | 22.57   | 31  | 0.00               | 0.12    | 0.12  | 31  |
| 14                  | 40.76   | 84.30   | 67.46   | 31  | 8.70                     | 40.87   | 22.89   | 31  | 0.00               | 0.17    | 0.21  | 31  |
| 15                  | 36.57   | 82.80   | 67.90   | 31  | 9.62                     | 51.50   | 24.47   | 31  | 0.00               | 0.09    | 0.12  | 31  |
| 16                  | 37.13   | 83.80   | 67.81   | 31  | 11.56                    | 57.89   | 23.81   | 31  | 0.00               | 0.03    | 0.03  | 31  |
| 17                  | 37.54   | 83.10   | 67.35   | 31  | 10.92                    | 38.77   | 23.62   | 31  | 0.00               | 0.00    | 0.00  | 31  |
| 18                  | 37.95   | 80.60   | 66.07   | 31  | 8.08                     | 41.72   | 23.15   | 31  | 0.00               | 0.24    | 0.26  | 31  |
| 19                  | 37.01   | 78.30   | 63.27   | 31  | 8.21                     | 35.75   | 19.58   | 31  | 0.00               | 0.16    | 0.17  | 31  |
| 20                  | 36.60   | 75.90   | 59.91   | 31  | 7.29                     | 43.47   | 19.10   | 31  | 0.00               | 0.10    | 0.10  | 31  |
| 21                  | 36.20   | 69.36   | 57.56   | 31  | 8.59                     | 49.15   | 17.76   | 31  | 0.00               | 0.02    | 0.04  | 31  |
| 22                  | 35.59   | 68.92   | 56.18   | 31  | 7.74                     | 49.58   | 16.69   | 31  | 0.00               | 0.09    | 0.16  | 31  |
| 23                  | 35.23   | 68.35   | 55.13   | 31  | 5.49                     | 48.11   | 15.59   | 31  | 0.00               | 0.02    | 0.04  | 31  |
| 24                  | 34.60   | 68.30   | 54.19   | 31  | 6.17                     | 43.76   | 14.29   | 31  | 0.00               | 0.00    | 0.00  | 31  |
|                     | 29.98   | 84.30   | 58.41   | 744 | 2.83                     | 57.89   | 17.13   | 744 | 0.00               | 0.24    | 0.00  | 744 |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: MET 2

Period: 5/ 1/91 thru 5/31/91

Month and year of record: MAY, 91

| SIGMA THETA (DEGREES) |         |         |         |     | P-G STABILITY CLASSIFICATION |         |         |     |  |
|-----------------------|---------|---------|---------|-----|------------------------------|---------|---------|-----|--|
| HR                    | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM                      | MAXIMUM | AVERAGE | OBS |  |
| 1                     | 6.05    | 34.84   | 12.19   | 31  | 1.00                         | 4.00    | 3.55    | 31  |  |
| 2                     | 4.91    | 38.51   | 14.69   | 31  | 1.00                         | 4.00    | 3.13    | 31  |  |
| 3                     | 5.99    | 42.77   | 13.78   | 31  | 1.00                         | 4.00    | 3.26    | 31  |  |
| 4                     | 4.52    | 44.24   | 13.05   | 31  | 1.00                         | 4.00    | 3.35    | 31  |  |
| 5                     | 5.75    | 41.87   | 12.45   | 31  | 1.00                         | 4.00    | 3.45    | 31  |  |
| 6                     | 5.67    | 39.58   | 12.30   | 31  | 1.00                         | 4.00    | 3.48    | 31  |  |
| 7                     | 6.38    | 50.06   | 17.44   | 31  | 1.00                         | 4.00    | 2.90    | 31  |  |
| 8                     | 8.34    | 48.20   | 18.92   | 31  | 4.00                         | 6.00    | 4.74    | 31  |  |
| 9                     | 8.42    | 51.33   | 22.54   | 31  | 4.00                         | 6.00    | 5.00    | 31  |  |
| 10                    | 9.03    | 52.56   | 25.02   | 31  | 4.00                         | 6.00    | 4.90    | 31  |  |
| 11                    | 10.51   | 50.31   | 24.42   | 31  | 4.00                         | 6.00    | 4.71    | 31  |  |
| 12                    | 10.37   | 50.25   | 25.20   | 31  | 4.00                         | 6.00    | 4.71    | 31  |  |
| 13                    | 9.17    | 52.51   | 23.52   | 31  | 4.00                         | 6.00    | 4.55    | 31  |  |
| 14                    | 8.58    | 42.61   | 20.68   | 31  | 4.00                         | 6.00    | 4.39    | 31  |  |
| 15                    | 8.38    | 48.26   | 19.56   | 31  | 4.00                         | 6.00    | 4.35    | 31  |  |
| 16                    | 8.21    | 36.93   | 16.32   | 31  | 4.00                         | 6.00    | 4.42    | 31  |  |
| 17                    | 7.49    | 48.26   | 14.51   | 31  | 4.00                         | 6.00    | 4.19    | 31  |  |
| 18                    | 7.79    | 36.54   | 12.87   | 31  | 4.00                         | 5.00    | 4.10    | 31  |  |
| 19                    | 7.46    | 37.21   | 13.54   | 31  | 4.00                         | 6.00    | 4.16    | 31  |  |
| 20                    | 6.75    | 36.48   | 13.84   | 31  | 4.00                         | 6.00    | 4.29    | 31  |  |
| 21                    | 6.30    | 37.47   | 13.20   | 31  | 4.00                         | 6.00    | 4.39    | 31  |  |
| 22                    | 5.37    | 32.03   | 13.56   | 31  | 4.00                         | 6.00    | 4.52    | 31  |  |
| 23                    | 6.20    | 33.89   | 13.97   | 31  | 4.00                         | 6.00    | 4.52    | 31  |  |
| 24                    | 3.66    | 30.00   | 11.77   | 31  | 4.00                         | 6.00    | 4.55    | 31  |  |
|                       | 3.66    | 52.56   | 16.64   | 744 | 1.00                         | 6.00    | 4.15    | 744 |  |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: MET 2

Period: 6/ 1/91 thru 6/30/91

Month and year of record: JUNE, 91

| WIND SPEED (MPH) |         |         |         |     | WIND DIRECTION (DEG) |         |         |     | SOLAR RADIATION (LY/HR) |         |         |     |
|------------------|---------|---------|---------|-----|----------------------|---------|---------|-----|-------------------------|---------|---------|-----|
| HR               | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM              | MAXIMUM | AVERAGE | OBS | MINIMUM                 | MAXIMUM | AVERAGE | OBS |
| 1                | 2.30    | 11.77   | 6.66    | 28  | 43.47                | 348.70  | 190.85  | 25  | -0.01                   | 0.00    | -0.01   | 30  |
| 2                | 2.45    | 13.59   | 6.63    | 28  | 124.50               | 308.40  | 197.91  | 25  | -0.01                   | 0.00    | -0.01   | 30  |
| 3                | 2.43    | 12.08   | 5.83    | 28  | 28.47                | 355.60  | 175.70  | 25  | -0.01                   | 0.00    | -0.01   | 30  |
| 4                | 2.70    | 10.34   | 6.27    | 28  | 48.89                | 318.80  | 189.31  | 25  | -0.01                   | 0.00    | -0.01   | 30  |
| 5                | 1.58    | 12.66   | 7.05    | 28  | 88.00                | 301.40  | 193.77  | 25  | 0.00                    | 0.01    | 0.00    | 30  |
| 6                | 2.22    | 16.55   | 6.99    | 28  | 70.20                | 338.50  | 200.63  | 25  | 0.01                    | 0.22    | 0.13    | 30  |
| 7                | 2.12    | 16.04   | 6.58    | 28  | 7.42                 | 359.80  | 206.78  | 25  | 0.09                    | 0.51    | 0.36    | 30  |
| 8                | 2.45    | 12.75   | 5.91    | 27  | 20.67                | 339.00  | 207.59  | 25  | 0.17                    | 0.79    | 0.63    | 30  |
| 9                | 2.88    | 17.80   | 6.30    | 28  | 27.53                | 351.50  | 172.88  | 25  | 0.11                    | 1.15    | 0.96    | 30  |
| 10               | 2.30    | 18.39   | 6.87    | 28  | 5.12                 | 349.30  | 100.84  | 26  | 0.16                    | 1.38    | 1.19    | 30  |
| 11               | 2.84    | 17.74   | 6.98    | 27  | 29.32                | 351.00  | 126.76  | 26  | 0.57                    | 1.59    | 1.35    | 30  |
| 12               | 3.78    | 18.01   | 7.51    | 28  | 15.32                | 325.00  | 99.73   | 26  | 0.57                    | 1.65    | 1.41    | 30  |
| 13               | 3.79    | 15.83   | 7.91    | 27  | 5.03                 | 356.30  | 106.87  | 26  | 0.34                    | 1.67    | 1.31    | 30  |
| 14               | 3.88    | 20.03   | 9.52    | 25  | 16.50                | 357.80  | 136.55  | 25  | 0.06                    | 1.55    | 1.01    | 30  |
| 15               | 4.79    | 20.06   | 10.77   | 27  | 0.87                 | 356.70  | 77.17   | 26  | 0.05                    | 1.35    | 0.78    | 30  |
| 16               | 4.77    | 23.30   | 11.32   | 28  | 5.05                 | 355.90  | 67.32   | 27  | 0.01                    | 1.10    | 0.65    | 30  |
| 17               | 4.57    | 21.79   | 11.56   | 27  | 8.27                 | 313.80  | 140.64  | 27  | 0.02                    | 0.85    | 0.42    | 30  |
| 18               | 2.78    | 24.43   | 11.87   | 28  | 6.66                 | 312.40  | 131.19  | 27  | -0.01                   | 0.44    | 0.29    | 30  |
| 19               | 2.65    | 23.81   | 9.27    | 27  | 3.42                 | 322.80  | 192.81  | 26  | 0.03                    | 0.20    | 0.11    | 30  |
| 20               | 2.40    | 23.74   | 8.85    | 28  | 5.52                 | 326.80  | 147.12  | 26  | -0.01                   | 0.03    | 0.00    | 30  |
| 21               | 3.41    | 17.07   | 8.33    | 28  | 6.58                 | 334.20  | 174.66  | 26  | -0.01                   | 0.00    | -0.01   | 30  |
| 22               | 3.02    | 16.20   | 8.05    | 28  | 47.99                | 344.90  | 175.20  | 26  | -0.01                   | 0.00    | -0.01   | 30  |
| 23               | 2.81    | 17.38   | 7.27    | 28  | 36.16                | 336.60  | 181.79  | 26  | -0.01                   | 0.00    | -0.01   | 30  |
| 24               | 2.51    | 15.43   | 7.18    | 28  | 106.70               | 326.00  | 187.22  | 26  | -0.01                   | 0.00    | -0.01   | 30  |
| 1.58             | 24.43   | 7.97    | 663     |     | 0.87                 | 359.80  | 171.50  | 1   | -0.01                   | 1.67    | 0.44    | 720 |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: MET 2

Period: 6/ 1/91 thru 6/30/91

Month and year of record: JUNE, 91

| AIR TEMPERATURE (F) |         |         |         |     | MAXIMUM WIND SPEED (MPH) |         |         |     | PRECIPITATION (IN) |         |       |     |
|---------------------|---------|---------|---------|-----|--------------------------|---------|---------|-----|--------------------|---------|-------|-----|
| HR                  | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM                  | MAXIMUM | AVERAGE | OBS | MINIMUM            | MAXIMUM | TOTAL | OBS |
| 1                   | 51.11   | 74.40   | 61.15   | 30  | 5.32                     | 19.34   | 11.07   | 28  | 0.00               | 0.00    | 0.00  | 30  |
| 2                   | 51.35   | 71.60   | 59.96   | 30  | 4.55                     | 20.11   | 11.06   | 28  | 0.00               | 0.00    | 0.00  | 30  |
| 3                   | 50.44   | 68.18   | 58.55   | 30  | 4.65                     | 18.06   | 10.04   | 28  | 0.00               | 0.00    | 0.00  | 30  |
| 4                   | 51.08   | 64.69   | 57.91   | 30  | 5.43                     | 17.10   | 10.53   | 28  | 0.00               | 0.00    | 0.00  | 30  |
| 5                   | 51.35   | 62.56   | 57.06   | 30  | 3.24                     | 22.24   | 11.33   | 28  | 0.00               | 0.00    | 0.00  | 30  |
| 6                   | 51.54   | 63.63   | 57.41   | 30  | 4.68                     | 24.36   | 11.78   | 28  | 0.00               | 0.01    | 0.01  | 30  |
| 7                   | 52.35   | 68.79   | 60.39   | 30  | 5.70                     | 26.45   | 11.23   | 28  | 0.00               | 0.01    | 0.01  | 30  |
| 8                   | 54.07   | 76.50   | 64.13   | 30  | 5.33                     | 17.49   | 10.38   | 27  | 0.00               | 0.00    | 0.00  | 30  |
| 9                   | 55.13   | 83.90   | 67.44   | 30  | 5.52                     | 31.63   | 11.94   | 28  | 0.00               | 0.00    | 0.00  | 30  |
| 10                  | 56.21   | 87.80   | 70.56   | 30  | 6.38                     | 31.55   | 13.12   | 28  | 0.00               | 0.00    | 0.00  | 30  |
| 11                  | 59.15   | 90.30   | 73.22   | 29  | 7.26                     | 32.51   | 13.81   | 27  | 0.00               | 0.00    | 0.00  | 30  |
| 12                  | 61.28   | 90.60   | 75.53   | 29  | 9.46                     | 39.92   | 16.36   | 28  | 0.00               | 0.00    | 0.00  | 30  |
| 13                  | 62.68   | 94.40   | 77.42   | 29  | 6.96                     | 31.96   | 17.20   | 27  | 0.00               | 0.00    | 0.00  | 30  |
| 14                  | 63.65   | 95.90   | 78.13   | 28  | 10.18                    | 31.31   | 20.14   | 25  | 0.00               | 0.00    | 0.00  | 30  |
| 15                  | 63.05   | 95.90   | 77.54   | 29  | 8.99                     | 57.15   | 21.81   | 27  | 0.00               | 0.00    | 0.00  | 30  |
| 16                  | 57.94   | 95.90   | 76.72   | 30  | 11.65                    | 42.13   | 22.60   | 28  | 0.00               | 0.16    | 0.21  | 30  |
| 17                  | 56.11   | 94.10   | 75.56   | 30  | 10.46                    | 42.30   | 22.76   | 27  | 0.00               | 0.23    | 0.26  | 30  |
| 18                  | 54.57   | 92.00   | 74.50   | 30  | 6.45                     | 42.42   | 21.35   | 28  | 0.00               | 0.05    | 0.06  | 30  |
| 19                  | 54.88   | 89.10   | 72.35   | 30  | 4.61                     | 37.34   | 16.94   | 27  | 0.00               | 0.01    | 0.01  | 30  |
| 20                  | 53.64   | 85.10   | 69.04   | 30  | 4.30                     | 37.76   | 15.83   | 28  | 0.00               | 0.02    | 0.03  | 30  |
| 21                  | 52.19   | 85.00   | 66.94   | 30  | 6.77                     | 33.67   | 15.19   | 28  | 0.00               | 0.35    | 0.38  | 30  |
| 22                  | 51.00   | 82.80   | 65.35   | 30  | 6.29                     | 33.31   | 13.84   | 28  | 0.00               | 0.05    | 0.07  | 30  |
| 23                  | 50.56   | 80.80   | 64.03   | 30  | 5.45                     | 62.63   | 13.63   | 28  | 0.00               | 0.73    | 0.74  | 30  |
| 24                  | 50.83   | 77.90   | 62.40   | 30  | 4.88                     | 30.42   | 12.12   | 28  | 0.00               | 0.09    | 0.10  | 30  |
|                     | 50.44   | 95.90   | 67.56   | 714 | 3.24                     | 62.63   | 14.79   | 663 | 0.00               | 0.73    | 0.00  | 720 |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: MET 2

Period: 6/ 1/91 thru 6/30/91

Month and year of record: JUNE, 91

| SIGMA THETA (DEGREES) |         |         |         |     | P-G STABILITY CLASSIFICATION |         |         |     |
|-----------------------|---------|---------|---------|-----|------------------------------|---------|---------|-----|
| HR                    | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM                      | MAXIMUM | AVERAGE | OBS |
| 1                     | 5.05    | 114.60  | 19.79   | 30  | 1.00                         | 4.00    | 3.18    | 28  |
| 2                     | 5.08    | 114.60  | 23.56   | 29  | 1.00                         | 4.00    | 2.93    | 28  |
| 3                     | 4.95    | 99.25   | 24.02   | 30  | 1.00                         | 4.00    | 2.71    | 28  |
| 4                     | 6.28    | 99.25   | 20.54   | 30  | 1.00                         | 4.00    | 2.75    | 28  |
| 5                     | 4.77    | 115.20  | 20.65   | 30  | 1.00                         | 4.00    | 2.86    | 28  |
| 6                     | 6.51    | 81.03   | 21.03   | 30  | 1.00                         | 4.00    | 3.07    | 28  |
| 7                     | 6.17    | 99.25   | 23.99   | 30  | 1.00                         | 4.00    | 2.75    | 28  |
| 8                     | 7.71    | 99.25   | 26.94   | 30  | 4.00                         | 6.00    | 5.07    | 27  |
| 9                     | 10.23   | 3534.90 | 148.34  | 30  | 4.00                         | 6.00    | 5.30    | 27  |
| 10                    | 9.84    | 114.60  | 31.61   | 30  | 4.00                         | 6.00    | 5.21    | 28  |
| 11                    | 11.85   | 57.30   | 30.80   | 30  | 4.00                         | 6.00    | 5.11    | 27  |
| 12                    | 12.09   | 81.03   | 33.38   | 30  | 4.00                         | 6.00    | 5.25    | 28  |
| 13                    | 9.95    | 57.30   | 29.10   | 30  | 4.00                         | 6.00    | 4.93    | 27  |
| 14                    | 10.02   | 99.25   | 28.47   | 30  | 4.00                         | 6.00    | 4.60    | 25  |
| 15                    | 7.82    | 57.30   | 25.04   | 30  | 4.00                         | 6.00    | 4.44    | 27  |
| 16                    | 9.59    | 499.10  | 38.71   | 30  | 4.00                         | 6.00    | 4.39    | 28  |
| 17                    | 7.60    | 99.25   | 19.73   | 30  | 4.00                         | 6.00    | 4.41    | 27  |
| 18                    | 7.69    | 81.03   | 17.58   | 30  | 4.00                         | 6.00    | 4.25    | 28  |
| 19                    | 7.52    | 3500.90 | 133.88  | 30  | 4.00                         | 6.00    | 4.48    | 27  |
| 20                    | 5.90    | 81.04   | 17.67   | 30  | 4.00                         | 6.00    | 4.57    | 28  |
| 21                    | 6.74    | 99.25   | 20.09   | 30  | 4.00                         | 6.00    | 4.54    | 28  |
| 22                    | 4.99    | 114.60  | 22.55   | 30  | 4.00                         | 6.00    | 4.61    | 28  |
| 23                    | 5.07    | 114.60  | 22.75   | 30  | 4.00                         | 6.00    | 4.82    | 28  |
| 24                    | 5.39    | 99.25   | 19.24   | 30  | 4.00                         | 6.00    | 4.79    | 28  |
| 4.77                  | 3534.90 | 34.16   | 719     |     | 1.00                         | 6.00    | 4.20    | 662 |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: MET 2

Period: 7/ 1/91 thru 7/31/91

Month and year of record: JULY, 91

| WIND SPEED (MPH) |         |         |         |     | WIND DIRECTION (DEG) |         |         |     | SOLAR RADIATION (LY/HR) |         |         |     |
|------------------|---------|---------|---------|-----|----------------------|---------|---------|-----|-------------------------|---------|---------|-----|
| HR               | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM              | MAXIMUM | AVERAGE | OBS | MINIMUM                 | MAXIMUM | AVERAGE | OBS |
| 1                | 3.22    | 12.76   | 6.92    | 31  | 13.97                | 341.60  | 180.01  | 31  | -0.01                   | 0.00    | -0.01   | 31  |
| 2                | 1.44    | 12.87   | 7.22    | 31  | 79.20                | 358.30  | 183.57  | 31  | -0.01                   | 0.00    | -0.01   | 31  |
| 3                | 1.91    | 13.17   | 6.61    | 31  | 42.92                | 351.20  | 185.66  | 31  | -0.01                   | 0.00    | -0.01   | 31  |
| 4                | 1.27    | 12.75   | 6.62    | 31  | 6.98                 | 319.80  | 194.88  | 31  | -0.01                   | 0.00    | -0.01   | 31  |
| 5                | 2.31    | 13.20   | 6.61    | 31  | 33.63                | 318.80  | 199.44  | 31  | -0.01                   | 0.01    | -0.00   | 31  |
| 6                | 2.63    | 11.43   | 6.20    | 31  | 27.88                | 354.30  | 213.36  | 31  | 0.01                    | 0.17    | 0.10    | 31  |
| 7                | 2.73    | 10.36   | 6.07    | 31  | 28.56                | 307.00  | 214.22  | 31  | 0.05                    | 0.46    | 0.34    | 31  |
| 8                | 2.75    | 10.44   | 5.99    | 31  | 3.20                 | 357.50  | 229.30  | 31  | 0.15                    | 0.75    | 0.60    | 31  |
| 9                | 2.64    | 21.00   | 5.79    | 30  | 7.38                 | 353.50  | 259.30  | 30  | 0.23                    | 1.09    | 0.88    | 31  |
| 10               | 2.50    | 18.49   | 6.02    | 30  | 1.48                 | 350.60  | 41.31   | 30  | 0.13                    | 1.35    | 1.15    | 31  |
| 11               | 2.83    | 15.46   | 6.54    | 31  | 5.64                 | 356.60  | 40.26   | 31  | 0.18                    | 1.52    | 1.35    | 31  |
| 12               | 3.69    | 14.20   | 7.21    | 31  | 16.18                | 339.70  | 42.97   | 31  | 0.45                    | 1.63    | 1.40    | 31  |
| 13               | 4.49    | 12.37   | 8.20    | 31  | 2.18                 | 358.00  | 47.82   | 31  | 0.24                    | 1.64    | 1.25    | 31  |
| 14               | 4.91    | 17.95   | 8.91    | 31  | 7.47                 | 359.90  | 38.36   | 31  | 0.22                    | 1.55    | 1.13    | 31  |
| 15               | 4.84    | 24.17   | 9.54    | 31  | 4.55                 | 350.50  | 15.84   | 31  | 0.02                    | 1.38    | 0.86    | 31  |
| 16               | 4.50    | 18.13   | 10.46   | 31  | 1.51                 | 355.60  | 25.38   | 31  | 0.01                    | 1.11    | 0.66    | 31  |
| 17               | 5.01    | 19.08   | 10.02   | 31  | 0.69                 | 359.60  | 34.80   | 31  | 0.02                    | 0.79    | 0.47    | 31  |
| 18               | 3.07    | 21.22   | 9.31    | 31  | 2.49                 | 344.90  | 71.39   | 31  | 0.01                    | 0.46    | 0.24    | 31  |
| 19               | 2.09    | 17.86   | 8.53    | 31  | 1.56                 | 332.30  | 80.97   | 31  | 0.00                    | 0.19    | 0.08    | 31  |
| 20               | 2.99    | 12.49   | 6.89    | 31  | 25.68                | 351.60  | 115.34  | 31  | -0.01                   | 0.01    | -0.00   | 31  |
| 21               | 2.60    | 11.54   | 6.48    | 31  | 0.58                 | 359.70  | 162.32  | 31  | -0.01                   | 0.00    | -0.01   | 31  |
| 22               | 2.56    | 16.48   | 7.70    | 31  | 15.81                | 345.10  | 175.82  | 31  | -0.01                   | 0.00    | -0.01   | 31  |
| 23               | 2.60    | 16.86   | 7.70    | 31  | 129.90               | 333.70  | 193.44  | 31  | -0.01                   | 0.00    | -0.01   | 31  |
| 24               | 2.56    | 14.61   | 7.35    | 31  | 8.69                 | 326.00  | 191.72  | 31  | -0.01                   | 0.00    | -0.01   | 31  |
|                  | 1.27    | 24.17   | 7.46    | 742 | 0.58                 | 359.90  | 169.87  | 1   | -0.01                   | 1.64    | 0.44    | 744 |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: MET 2

Period: 7/ 1/91 thru 7/31/91

Month and year of record: JULY, 91

| AIR TEMPERATURE (F) |         |         |         |     | MAXIMUM WIND SPEED (MPH) |         |         |     | PRECIPITATION (IN) |         |       |     |
|---------------------|---------|---------|---------|-----|--------------------------|---------|---------|-----|--------------------|---------|-------|-----|
| HR                  | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM                  | MAXIMUM | AVERAGE | OBS | MINIMUM            | MAXIMUM | TOTAL | OBS |
| 1                   | 56.77   | 71.80   | 64.95   | 31  | 6.58                     | 19.79   | 11.30   | 31  | 0.00               | 0.02    | 0.02  | 31  |
| 2                   | 55.03   | 69.96   | 63.73   | 31  | 4.20                     | 21.21   | 11.70   | 31  | 0.00               | 0.22    | 0.22  | 31  |
| 3                   | 55.22   | 69.95   | 62.52   | 31  | 4.52                     | 17.77   | 10.82   | 31  | 0.00               | 0.01    | 0.01  | 31  |
| 4                   | 54.96   | 68.90   | 61.92   | 31  | 3.89                     | 18.54   | 10.54   | 31  | 0.00               | 0.01    | 0.01  | 31  |
| 5                   | 54.66   | 68.36   | 61.24   | 31  | 5.19                     | 19.44   | 10.52   | 31  | 0.00               | 0.00    | 0.00  | 31  |
| 6                   | 54.93   | 69.52   | 61.54   | 31  | 5.13                     | 17.03   | 10.21   | 31  | 0.00               | 0.01    | 0.01  | 31  |
| 7                   | 55.69   | 73.20   | 64.36   | 31  | 6.46                     | 15.67   | 9.96    | 31  | 0.00               | 0.00    | 0.00  | 31  |
| 8                   | 56.11   | 77.80   | 67.93   | 31  | 5.61                     | 22.72   | 10.49   | 31  | 0.00               | 0.01    | 0.01  | 31  |
| 9                   | 57.14   | 82.60   | 71.11   | 30  | 5.14                     | 28.31   | 10.45   | 30  | 0.00               | 0.00    | 0.00  | 31  |
| 10                  | 55.89   | 88.20   | 74.58   | 31  | 5.13                     | 29.93   | 11.73   | 30  | 0.00               | 0.00    | 0.00  | 31  |
| 11                  | 56.51   | 90.00   | 77.15   | 31  | 8.22                     | 24.07   | 13.37   | 31  | 0.00               | 0.00    | 0.00  | 31  |
| 12                  | 57.26   | 93.10   | 79.10   | 31  | 9.30                     | 23.72   | 14.96   | 31  | 0.00               | 0.00    | 0.00  | 31  |
| 13                  | 58.62   | 92.50   | 80.49   | 31  | 10.55                    | 37.70   | 16.68   | 31  | 0.00               | 0.00    | 0.00  | 31  |
| 14                  | 59.25   | 92.80   | 81.22   | 31  | 11.01                    | 31.53   | 17.66   | 31  | 0.00               | 0.00    | 0.00  | 31  |
| 15                  | 57.74   | 92.10   | 80.25   | 31  | 9.67                     | 47.75   | 18.94   | 31  | 0.00               | 1.55    | 1.81  | 31  |
| 16                  | 60.00   | 92.50   | 78.92   | 31  | 9.01                     | 34.71   | 19.48   | 31  | 0.00               | 0.12    | 0.17  | 31  |
| 17                  | 59.82   | 91.20   | 78.41   | 31  | 9.50                     | 32.92   | 18.32   | 31  | 0.00               | 0.01    | 0.01  | 31  |
| 18                  | 59.47   | 90.50   | 77.14   | 31  | 8.75                     | 30.70   | 16.75   | 31  | 0.00               | 0.01    | 0.03  | 31  |
| 19                  | 58.63   | 88.30   | 74.36   | 31  | 4.01                     | 30.60   | 15.40   | 31  | 0.00               | 0.02    | 0.06  | 31  |
| 20                  | 58.83   | 83.50   | 72.11   | 31  | 5.38                     | 20.92   | 12.32   | 31  | 0.00               | 0.04    | 0.05  | 31  |
| 21                  | 57.42   | 79.40   | 70.21   | 31  | 5.70                     | 18.29   | 11.10   | 31  | 0.00               | 0.02    | 0.02  | 31  |
| 22                  | 57.06   | 76.70   | 68.81   | 31  | 6.44                     | 33.46   | 13.22   | 31  | 0.00               | 0.01    | 0.02  | 31  |
| 23                  | 56.66   | 76.00   | 67.38   | 31  | 6.14                     | 25.93   | 12.94   | 31  | 0.00               | 0.00    | 0.00  | 31  |
| 24                  | 56.59   | 74.70   | 66.44   | 31  | 5.10                     | 21.73   | 11.81   | 31  | 0.00               | 0.00    | 0.00  | 31  |
|                     | 54.66   | 93.10   | 71.08   | 743 | 3.89                     | 47.75   | 13.37   | 742 | 0.00               | 1.55    | 0.00  | 744 |



WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: MET 2

Period: 7/ 1/91 thru 7/31/91

Month and year of record: JULY, 91

| SIGMA THETA (DEGREES) |         |         |         |     | P-G STABILITY CLASSIFICATION |         |         |     |
|-----------------------|---------|---------|---------|-----|------------------------------|---------|---------|-----|
| HR                    | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM                      | MAXIMUM | AVERAGE | OBS |
| 1                     | 4.47    | 37.20   | 11.99   | 31  | 1.00                         | 4.00    | 3.45    | 31  |
| 2                     | 5.46    | 33.89   | 11.83   | 31  | 1.00                         | 4.00    | 3.42    | 31  |
| 3                     | 4.47    | 42.75   | 11.52   | 31  | 1.00                         | 4.00    | 3.55    | 31  |
| 4                     | 5.09    | 41.45   | 13.18   | 31  | 1.00                         | 5.00    | 3.23    | 31  |
| 5                     | 4.19    | 37.22   | 14.17   | 31  | 1.00                         | 4.00    | 3.13    | 31  |
| 6                     | 5.02    | 36.06   | 13.58   | 31  | 1.00                         | 4.00    | 3.23    | 31  |
| 7                     | 6.99    | 34.26   | 13.55   | 31  | 1.00                         | 4.00    | 3.32    | 31  |
| 8                     | 8.36    | 499.14  | 33.54   | 31  | 4.00                         | 6.00    | 4.81    | 31  |
| 9                     | 9.92    | 62.69   | 26.74   | 31  | 4.00                         | 6.00    | 5.30    | 30  |
| 10                    | 10.76   | 500.43  | 49.50   | 31  | 4.00                         | 6.00    | 5.30    | 30  |
| 11                    | 12.15   | 58.05   | 32.78   | 31  | 4.00                         | 6.00    | 5.29    | 31  |
| 12                    | 11.00   | 62.72   | 30.06   | 31  | 4.00                         | 6.00    | 5.03    | 31  |
| 13                    | 11.30   | 48.60   | 26.23   | 31  | 4.00                         | 6.00    | 4.61    | 31  |
| 14                    | 10.01   | 50.25   | 26.08   | 31  | 4.00                         | 6.00    | 4.61    | 31  |
| 15                    | 9.72    | 60.64   | 26.37   | 31  | 4.00                         | 6.00    | 4.58    | 31  |
| 16                    | 8.90    | 43.72   | 21.50   | 31  | 4.00                         | 6.00    | 4.45    | 31  |
| 17                    | 8.61    | 51.38   | 17.89   | 31  | 4.00                         | 6.00    | 4.23    | 31  |
| 18                    | 6.34    | 39.06   | 16.84   | 31  | 4.00                         | 6.00    | 4.35    | 31  |
| 19                    | 6.68    | 21.88   | 12.11   | 31  | 4.00                         | 5.00    | 4.16    | 31  |
| 20                    | 6.06    | 30.32   | 15.22   | 31  | 4.00                         | 6.00    | 4.71    | 31  |
| 21                    | 4.09    | 35.74   | 14.95   | 31  | 4.00                         | 6.00    | 4.81    | 31  |
| 22                    | 5.16    | 32.24   | 12.30   | 31  | 4.00                         | 6.00    | 4.58    | 31  |
| 23                    | 6.23    | 54.48   | 16.34   | 31  | 4.00                         | 6.00    | 4.58    | 31  |
| 24                    | 5.10    | 42.60   | 12.65   | 31  | 4.00                         | 6.00    | 4.65    | 31  |
|                       | 4.09    | 500.43  | 20.04   | 744 | 1.00                         | 6.00    | 4.30    | 742 |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: MET 2

Period: 8/ 1/91 thru 8/31/91

Month and year of record: AUGUST, 91

| WIND SPEED (MPH) |         |         |         |     | WIND DIRECTION (DEG) |         |         |     | SOLAR RADIATION (LY/HR) |         |         |     |
|------------------|---------|---------|---------|-----|----------------------|---------|---------|-----|-------------------------|---------|---------|-----|
| HR               | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM              | MAXIMUM | AVERAGE | OBS | MINIMUM                 | MAXIMUM | AVERAGE | OBS |
| 1                | 2.29    | 11.98   | 7.44    | 31  | 143.30               | 329.10  | 188.43  | 31  | -0.01                   | 0.00    | -0.01   | 31  |
| 2                | 2.89    | 11.48   | 7.07    | 31  | 3.51                 | 289.50  | 189.91  | 31  | -0.01                   | 0.00    | -0.01   | 31  |
| 3                | 3.27    | 11.42   | 6.91    | 31  | 4.56                 | 289.30  | 185.76  | 31  | -0.01                   | 0.00    | -0.01   | 31  |
| 4                | 2.60    | 11.15   | 6.80    | 31  | 94.50                | 333.20  | 197.38  | 31  | -0.01                   | 0.00    | -0.01   | 31  |
| 5                | 3.23    | 10.61   | 6.67    | 31  | 24.67                | 340.80  | 199.74  | 31  | -0.01                   | 0.00    | -0.01   | 31  |
| 6                | 1.34    | 11.13   | 6.00    | 31  | 56.83                | 327.80  | 198.04  | 31  | 0.01                    | 0.06    | 0.03    | 31  |
| 7                | 2.31    | 8.81    | 5.47    | 31  | 50.36                | 353.40  | 205.08  | 31  | 0.02                    | 0.34    | 0.21    | 31  |
| 8                | 2.52    | 10.04   | 5.86    | 31  | 20.22                | 340.50  | 227.37  | 31  | 0.02                    | 0.64    | 0.50    | 31  |
| 9                | 2.11    | 10.03   | 4.92    | 31  | 39.43                | 347.50  | 273.06  | 31  | 0.05                    | 0.98    | 0.80    | 31  |
| 10               | 2.19    | 11.74   | 4.95    | 31  | 1.06                 | 359.50  | 2.87    | 31  | 0.26                    | 1.27    | 1.01    | 31  |
| 11               | 2.69    | 11.65   | 5.69    | 31  | 8.76                 | 356.30  | 43.46   | 31  | 0.26                    | 1.41    | 1.20    | 31  |
| 12               | 3.23    | 10.87   | 5.96    | 31  | 2.25                 | 325.20  | 46.32   | 31  | 0.11                    | 1.53    | 1.31    | 31  |
| 13               | 3.37    | 12.84   | 6.63    | 31  | 1.11                 | 301.80  | 51.58   | 31  | 0.14                    | 1.53    | 1.21    | 31  |
| 14               | 3.53    | 12.59   | 6.85    | 31  | 2.69                 | 354.50  | 51.13   | 31  | 0.17                    | 1.47    | 1.06    | 31  |
| 15               | 3.93    | 13.02   | 7.06    | 31  | 1.69                 | 356.30  | 24.47   | 31  | 0.04                    | 1.27    | 0.79    | 31  |
| 16               | 2.62    | 16.34   | 7.56    | 31  | 9.04                 | 354.50  | 356.11  | 31  | 0.02                    | 0.90    | 0.50    | 31  |
| 17               | 3.20    | 15.56   | 8.64    | 31  | 8.59                 | 352.20  | 352.83  | 31  | 0.03                    | 0.67    | 0.31    | 31  |
| 18               | 1.20    | 14.49   | 7.81    | 31  | 0.61                 | 337.40  | 291.45  | 31  | 0.01                    | 0.43    | 0.15    | 31  |
| 19               | 3.54    | 17.04   | 7.83    | 31  | 0.26                 | 351.10  | 154.33  | 31  | 0.00                    | 0.11    | 0.03    | 31  |
| 20               | 1.77    | 13.59   | 6.77    | 31  | 28.15                | 344.10  | 191.25  | 31  | -0.01                   | 0.00    | -0.01   | 31  |
| 21               | 2.12    | 13.02   | 7.18    | 30  | 1.85                 | 355.30  | 172.60  | 30  | -0.01                   | 0.00    | -0.01   | 31  |
| 22               | 2.33    | 11.87   | 7.56    | 30  | 28.77                | 352.80  | 187.44  | 30  | -0.01                   | 0.00    | -0.01   | 31  |
| 23               | 3.28    | 12.18   | 7.54    | 31  | 100.60               | 327.50  | 183.87  | 31  | -0.01                   | 0.00    | -0.01   | 31  |
| 24               | 3.23    | 13.31   | 7.19    | 31  | 56.85                | 339.10  | 185.92  | 31  | -0.01                   | 0.00    | -0.01   | 31  |
|                  | 1.20    | 17.04   | 6.76    | 742 | 0.26                 | 359.50  | 186.98  | 1   | -0.01                   | 1.53    | 0.38    | 744 |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: MET 2

Period: 8/ 1/91 thru 8/31/91

Month and year of record: AUGUST, 91

| AIR TEMPERATURE (F) |         |         |         |     | MAXIMUM WIND SPEED (MPH) |         |         |     | PRECIPITATION (IN) |         |       |     |
|---------------------|---------|---------|---------|-----|--------------------------|---------|---------|-----|--------------------|---------|-------|-----|
| HR                  | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM                  | MAXIMUM | AVERAGE | OBS | MINIMUM            | MAXIMUM | TOTAL | OBS |
| 1                   | 58.29   | 73.00   | 63.82   | 31  | 5.84                     | 16.17   | 11.10   | 31  | 0.00               | 0.00    | 0.00  | 31  |
| 2                   | 57.63   | 71.20   | 62.72   | 31  | 6.35                     | 19.03   | 11.32   | 31  | 0.00               | 0.03    | 0.03  | 31  |
| 3                   | 56.13   | 69.98   | 61.89   | 31  | 5.81                     | 17.11   | 10.81   | 31  | 0.00               | 0.00    | 0.00  | 31  |
| 4                   | 55.08   | 68.10   | 61.15   | 31  | 6.55                     | 16.46   | 10.62   | 31  | 0.00               | 0.00    | 0.00  | 31  |
| 5                   | 54.98   | 66.94   | 60.31   | 31  | 6.44                     | 14.70   | 10.25   | 31  | 0.00               | 0.00    | 0.00  | 31  |
| 6                   | 53.21   | 67.40   | 59.88   | 31  | 4.10                     | 15.55   | 9.84    | 31  | 0.00               | 0.20    | 0.20  | 31  |
| 7                   | 55.76   | 68.27   | 61.60   | 31  | 4.65                     | 13.25   | 9.61    | 31  | 0.00               | 0.23    | 0.23  | 31  |
| 8                   | 58.42   | 74.40   | 65.75   | 31  | 6.18                     | 17.90   | 9.89    | 31  | 0.00               | 0.37    | 0.37  | 31  |
| 9                   | 59.21   | 78.20   | 69.57   | 31  | 5.46                     | 16.66   | 9.33    | 31  | 0.00               | 0.04    | 0.04  | 31  |
| 10                  | 58.96   | 81.70   | 72.63   | 31  | 6.47                     | 19.73   | 9.69    | 31  | 0.00               | 0.02    | 0.02  | 31  |
| 11                  | 59.62   | 84.90   | 75.07   | 31  | 6.13                     | 18.04   | 11.43   | 31  | 0.00               | 0.00    | 0.00  | 31  |
| 12                  | 58.37   | 87.00   | 77.21   | 31  | 6.30                     | 19.38   | 12.10   | 31  | 0.00               | 0.02    | 0.02  | 31  |
| 13                  | 57.24   | 88.20   | 78.90   | 31  | 7.95                     | 35.25   | 14.73   | 31  | 0.00               | 0.00    | 0.00  | 31  |
| 14                  | 57.11   | 88.70   | 79.78   | 31  | 7.54                     | 38.28   | 14.53   | 31  | 0.00               | 0.00    | 0.00  | 31  |
| 15                  | 57.75   | 89.80   | 79.89   | 31  | 10.55                    | 38.34   | 16.55   | 31  | 0.00               | 0.00    | 0.00  | 31  |
| 16                  | 58.45   | 89.20   | 78.61   | 31  | 8.76                     | 30.95   | 16.52   | 31  | 0.00               | 0.00    | 0.00  | 31  |
| 17                  | 59.65   | 87.40   | 76.96   | 31  | 7.79                     | 30.71   | 16.36   | 31  | 0.00               | 0.00    | 0.00  | 31  |
| 18                  | 60.45   | 83.20   | 75.29   | 31  | 4.18                     | 29.27   | 15.13   | 31  | 0.00               | 0.83    | 0.83  | 31  |
| 19                  | 60.24   | 79.80   | 72.72   | 31  | 6.97                     | 56.65   | 15.12   | 31  | 0.00               | 0.31    | 0.31  | 31  |
| 20                  | 59.74   | 78.90   | 70.28   | 31  | 5.23                     | 35.99   | 13.44   | 31  | 0.00               | 0.07    | 0.07  | 31  |
| 21                  | 60.16   | 77.60   | 68.24   | 31  | 4.85                     | 21.02   | 12.00   | 30  | 0.00               | 0.01    | 0.01  | 31  |
| 22                  | 60.08   | 76.70   | 67.07   | 31  | 5.07                     | 19.57   | 12.47   | 30  | 0.00               | 0.00    | 0.00  | 31  |
| 23                  | 59.45   | 73.30   | 65.95   | 31  | 5.40                     | 18.61   | 11.51   | 31  | 0.00               | 0.00    | 0.00  | 31  |
| 24                  | 58.80   | 71.60   | 64.49   | 31  | 6.48                     | 20.96   | 11.37   | 31  | 0.00               | 0.00    | 0.00  | 31  |
|                     | 53.21   | 89.80   | 69.57   | 744 | 4.10                     | 56.65   | 12.32   | 742 | 0.00               | 0.83    | 0.00  | 744 |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: MET 2

Period: 8/ 1/91 thru 8/31/91

Month and year of record: AUGUST, 91

| SIGMA THETA (DEGREES) |         |         |         |     | P-G STABILITY CLASSIFICATION |         |         |     |
|-----------------------|---------|---------|---------|-----|------------------------------|---------|---------|-----|
| HR                    | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM                      | MAXIMUM | AVERAGE | OBS |
| 1                     | 5.02    | 56.70   | 11.18   | 31  | 1.00                         | 4.00    | 3.55    | 31  |
| 2                     | 3.78    | 31.44   | 11.58   | 31  | 1.00                         | 4.00    | 3.45    | 31  |
| 3                     | 4.47    | 24.95   | 9.79    | 31  | 1.00                         | 4.00    | 3.65    | 31  |
| 4                     | 4.87    | 36.64   | 11.61   | 31  | 1.00                         | 4.00    | 3.45    | 31  |
| 5                     | 4.29    | 26.69   | 10.22   | 31  | 1.00                         | 4.00    | 3.65    | 31  |
| 6                     | 3.67    | 47.47   | 15.17   | 31  | 1.00                         | 4.00    | 3.00    | 31  |
| 7                     | 5.30    | 37.74   | 16.16   | 31  | 1.00                         | 4.00    | 2.84    | 31  |
| 8                     | 7.42    | 32.40   | 14.60   | 31  | 4.00                         | 6.00    | 4.68    | 31  |
| 9                     | 9.99    | 48.22   | 24.07   | 31  | 4.00                         | 6.00    | 5.45    | 31  |
| 10                    | 7.80    | 51.93   | 29.02   | 31  | 4.00                         | 6.00    | 5.58    | 31  |
| 11                    | 9.56    | 53.73   | 29.10   | 31  | 4.00                         | 6.00    | 5.39    | 31  |
| 12                    | 15.58   | 49.11   | 32.32   | 31  | 4.00                         | 6.00    | 5.35    | 31  |
| 13                    | 10.34   | 43.58   | 30.45   | 31  | 4.00                         | 6.00    | 5.23    | 31  |
| 14                    | 13.33   | 48.40   | 27.52   | 31  | 4.00                         | 6.00    | 5.03    | 31  |
| 15                    | 9.65    | 55.93   | 26.80   | 31  | 4.00                         | 6.00    | 5.03    | 31  |
| 16                    | 8.57    | 42.10   | 23.49   | 31  | 4.00                         | 6.00    | 4.77    | 31  |
| 17                    | 7.96    | 47.56   | 18.86   | 31  | 4.00                         | 6.00    | 4.45    | 31  |
| 18                    | 4.23    | 45.21   | 15.85   | 31  | 4.00                         | 6.00    | 4.45    | 31  |
| 19                    | 5.30    | 39.23   | 13.06   | 31  | 4.00                         | 6.00    | 4.65    | 31  |
| 20                    | 5.81    | 49.10   | 17.68   | 31  | 4.00                         | 6.00    | 4.83    | 30  |
| 21                    | 3.46    | 48.33   | 13.38   | 30  | 4.00                         | 6.00    | 4.70    | 30  |
| 22                    | 5.03    | 45.75   | 11.03   | 30  | 4.00                         | 6.00    | 4.70    | 30  |
| 23                    | 3.78    | 39.50   | 12.25   | 31  | 4.00                         | 6.00    | 4.57    | 30  |
| 24                    | 3.72    | 41.46   | 11.19   | 31  | 4.00                         | 6.00    | 4.68    | 31  |
|                       | 3.46    | 49.10   | 29.44   | 742 | 1.00                         | 6.00    | 4.46    | 740 |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: MET 2

Period: 9/ 1/91 thru 9/30/91

Month and year of record: SEPTEMBER, 91

| WIND SPEED (MPH) |         |         |         |     | WIND DIRECTION (DEG) |         |         |     | SOLAR RADIATION (LY/HR) |         |         |     |
|------------------|---------|---------|---------|-----|----------------------|---------|---------|-----|-------------------------|---------|---------|-----|
| HR               | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM              | MAXIMUM | AVERAGE | OBS | MINIMUM                 | MAXIMUM | AVERAGE | OBS |
| 1                | 3.20    | 13.69   | 7.22    | 30  | 2.17                 | 281.70  | 183.37  | 30  | -0.01                   | 0.00    | -0.01   | 30  |
| 2                | 2.83    | 14.91   | 7.21    | 30  | 57.78                | 344.10  | 187.24  | 30  | -0.01                   | 0.00    | -0.01   | 30  |
| 3                | 1.66    | 13.71   | 6.45    | 30  | 50.24                | 298.10  | 188.26  | 30  | -0.01                   | 0.00    | -0.01   | 30  |
| 4                | 0.52    | 15.91   | 6.08    | 30  | 69.67                | 270.40  | 186.06  | 30  | -0.01                   | 0.00    | -0.01   | 30  |
| 5                | 1.04    | 14.34   | 5.69    | 30  | 14.54                | 340.40  | 170.36  | 30  | -0.01                   | 0.00    | -0.01   | 30  |
| 6                | 1.90    | 11.24   | 6.09    | 30  | 37.70                | 359.50  | 179.24  | 30  | 0.00                    | 0.02    | 0.00    | 30  |
| 7                | 2.52    | 11.65   | 6.18    | 30  | 66.56                | 342.90  | 188.01  | 30  | 0.02                    | 0.23    | 0.14    | 30  |
| 8                | 2.83    | 11.60   | 6.41    | 30  | 29.43                | 347.80  | 214.38  | 30  | 0.03                    | 0.55    | 0.40    | 30  |
| 9                | 2.26    | 13.17   | 6.53    | 30  | 7.98                 | 344.20  | 246.14  | 30  | 0.05                    | 0.84    | 0.67    | 30  |
| 10               | 2.32    | 16.62   | 5.83    | 30  | 6.82                 | 359.70  | 320.85  | 30  | 0.10                    | 1.16    | 0.93    | 30  |
| 11               | 2.38    | 14.94   | 5.85    | 30  | 0.52                 | 357.90  | 52.35   | 30  | 0.23                    | 1.36    | 1.12    | 30  |
| 12               | 2.34    | 14.89   | 6.48    | 30  | 4.61                 | 358.20  | 57.50   | 30  | 0.14                    | 1.40    | 1.18    | 30  |
| 13               | 3.33    | 16.73   | 6.84    | 30  | 22.89                | 355.10  | 46.20   | 30  | 0.21                    | 1.39    | 1.11    | 30  |
| 14               | 3.35    | 17.82   | 7.65    | 30  | 8.80                 | 345.50  | 26.74   | 30  | 0.31                    | 1.29    | 0.99    | 30  |
| 15               | 2.39    | 19.31   | 8.85    | 30  | 7.45                 | 357.80  | 8.15    | 30  | 0.17                    | 1.10    | 0.78    | 30  |
| 16               | 3.43    | 28.04   | 9.86    | 30  | 5.14                 | 345.40  | 21.16   | 30  | 0.08                    | 0.80    | 0.49    | 30  |
| 17               | 2.50    | 22.86   | 9.84    | 30  | 0.06                 | 347.20  | 9.09    | 30  | 0.06                    | 0.49    | 0.26    | 30  |
| 18               | 2.58    | 19.82   | 9.20    | 30  | 4.16                 | 344.40  | 12.20   | 30  | 0.01                    | 0.19    | 0.06    | 30  |
| 19               | 2.33    | 16.56   | 7.80    | 30  | 14.44                | 359.60  | 269.84  | 30  | -0.01                   | 0.00    | -0.00   | 30  |
| 20               | 1.61    | 15.76   | 7.71    | 30  | 6.33                 | 351.40  | 166.20  | 30  | -0.01                   | 0.00    | -0.01   | 30  |
| 21               | 1.88    | 17.10   | 7.64    | 30  | 13.99                | 344.20  | 184.16  | 30  | -0.01                   | 0.00    | -0.01   | 30  |
| 22               | 2.72    | 16.12   | 7.38    | 30  | 35.70                | 357.50  | 179.53  | 30  | -0.01                   | 0.00    | -0.01   | 30  |
| 23               | 2.10    | 13.02   | 7.77    | 30  | 36.52                | 323.80  | 181.83  | 30  | -0.01                   | 0.00    | -0.01   | 30  |
| 24               | 3.55    | 11.80   | 7.42    | 30  | 47.12                | 343.30  | 180.34  | 30  | -0.01                   | 0.00    | -0.01   | 30  |
|                  | 0.52    | 28.04   | 7.25    | 720 | 0.06                 | 359.70  | 178.42  | 1   | -0.01                   | 1.40    | 0.34    | 720 |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: MET 2

Period: 9/ 1/91 thru 9/30/91

Month and year of record: SEPTEMBER, 91

| AIR TEMPERATURE (F) |         |         |         |     | MAXIMUM WIND SPEED (MPH) |         |         |     | PRECIPITATION (IN) |         |       |     |
|---------------------|---------|---------|---------|-----|--------------------------|---------|---------|-----|--------------------|---------|-------|-----|
| HR                  | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM                  | MAXIMUM | AVERAGE | OBS | MINIMUM            | MAXIMUM | TOTAL | OBS |
| 1                   | 41.90   | 65.58   | 55.38   | 30  | 6.12                     | 20.66   | 11.62   | 30  | 0.00               | 0.00    | 0.00  | 30  |
| 2                   | 40.60   | 64.69   | 54.17   | 30  | 5.48                     | 22.85   | 11.64   | 30  | 0.00               | 0.00    | 0.00  | 30  |
| 3                   | 39.36   | 64.81   | 53.30   | 30  | 4.45                     | 28.20   | 11.01   | 30  | 0.00               | 0.00    | 0.00  | 30  |
| 4                   | 38.64   | 64.63   | 52.27   | 30  | 2.79                     | 26.35   | 10.15   | 30  | 0.00               | 0.00    | 0.00  | 30  |
| 5                   | 36.14   | 63.30   | 51.13   | 30  | 3.59                     | 25.15   | 9.68    | 30  | 0.00               | 0.00    | 0.00  | 30  |
| 6                   | 36.54   | 61.65   | 50.75   | 30  | 5.35                     | 15.97   | 9.82    | 30  | 0.00               | 0.00    | 0.00  | 30  |
| 7                   | 38.05   | 63.32   | 51.73   | 30  | 5.38                     | 18.55   | 10.15   | 30  | 0.00               | 0.00    | 0.00  | 30  |
| 8                   | 40.90   | 67.64   | 56.12   | 30  | 5.97                     | 18.39   | 11.29   | 30  | 0.00               | 0.00    | 0.00  | 30  |
| 9                   | 42.35   | 72.00   | 60.06   | 30  | 5.30                     | 26.22   | 11.56   | 30  | 0.00               | 0.00    | 0.00  | 30  |
| 10                  | 43.98   | 76.00   | 63.48   | 30  | 6.55                     | 24.38   | 11.52   | 30  | 0.00               | 0.00    | 0.00  | 30  |
| 11                  | 46.38   | 79.30   | 66.49   | 30  | 6.14                     | 25.48   | 12.25   | 30  | 0.00               | 0.00    | 0.00  | 30  |
| 12                  | 48.05   | 80.80   | 68.98   | 30  | 5.04                     | 22.78   | 13.27   | 30  | 0.00               | 0.00    | 0.00  | 30  |
| 13                  | 48.79   | 81.40   | 70.91   | 30  | 7.38                     | 25.61   | 14.46   | 30  | 0.00               | 0.00    | 0.00  | 30  |
| 14                  | 49.49   | 82.50   | 72.24   | 30  | 7.03                     | 26.60   | 15.85   | 30  | 0.00               | 0.05    | 0.05  | 30  |
| 15                  | 50.80   | 83.80   | 72.60   | 30  | 6.25                     | 41.13   | 18.38   | 30  | 0.00               | 0.01    | 0.01  | 30  |
| 16                  | 51.48   | 83.50   | 71.72   | 30  | 7.47                     | 39.89   | 17.91   | 30  | 0.00               | 0.02    | 0.02  | 30  |
| 17                  | 51.31   | 83.00   | 70.51   | 30  | 5.56                     | 37.60   | 17.91   | 30  | 0.00               | 0.08    | 0.08  | 30  |
| 18                  | 50.42   | 79.80   | 67.59   | 30  | 6.09                     | 32.53   | 15.66   | 30  | 0.00               | 0.04    | 0.04  | 30  |
| 19                  | 48.32   | 75.50   | 64.73   | 30  | 6.00                     | 27.07   | 13.81   | 30  | 0.00               | 0.00    | 0.00  | 30  |
| 20                  | 47.03   | 71.50   | 62.01   | 30  | 4.21                     | 32.51   | 13.32   | 30  | 0.00               | 0.00    | 0.00  | 30  |
| 21                  | 44.21   | 68.74   | 59.85   | 30  | 3.49                     | 27.11   | 12.71   | 30  | 0.00               | 0.07    | 0.07  | 30  |
| 22                  | 41.16   | 70.50   | 58.45   | 30  | 5.83                     | 29.84   | 12.24   | 30  | 0.00               | 0.07    | 0.07  | 30  |
| 23                  | 40.15   | 70.00   | 57.16   | 30  | 5.61                     | 21.81   | 11.94   | 30  | 0.00               | 0.00    | 0.00  | 30  |
| 24                  | 39.82   | 68.22   | 55.83   | 30  | 5.78                     | 18.09   | 11.52   | 30  | 0.00               | 0.00    | 0.00  | 30  |
|                     | 36.14   | 83.80   | 61.14   | 720 | 2.79                     | 41.13   | 12.90   | 720 | 0.00               | 0.08    | 0.00  | 720 |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: MET 2

Period: 9/ 1/91 thru 9/30/91

Month and year of record: SEPTEMBER, 91

| SIGMA THETA (DEGREES) |         |         |         |     | P-G STABILITY CLASSIFICATION |         |         |     |
|-----------------------|---------|---------|---------|-----|------------------------------|---------|---------|-----|
| HR                    | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM                      | MAXIMUM | AVERAGE | OBS |
| 1                     | 5.02    | 36.93   | 12.22   | 30  | 1.00                         | 4.00    | 3.37    | 30  |
| 2                     | 5.16    | 38.97   | 12.33   | 30  | 1.00                         | 4.00    | 3.37    | 30  |
| 3                     | 5.40    | 33.48   | 13.23   | 30  | 1.00                         | 4.00    | 3.33    | 30  |
| 4                     | 4.13    | 41.74   | 14.16   | 30  | 1.00                         | 4.00    | 3.07    | 30  |
| 5                     | 4.39    | 40.08   | 13.85   | 30  | 1.00                         | 4.00    | 3.17    | 30  |
| 6                     | 4.17    | 27.22   | 11.53   | 30  | 1.00                         | 4.00    | 3.43    | 30  |
| 7                     | 5.30    | 37.35   | 13.37   | 30  | 1.00                         | 6.00    | 4.17    | 30  |
| 8                     | 7.64    | 48.22   | 15.29   | 30  | 4.00                         | 6.00    | 4.63    | 30  |
| 9                     | 7.51    | 43.47   | 18.36   | 30  | 4.00                         | 6.00    | 4.93    | 30  |
| 10                    | 8.24    | 50.06   | 28.45   | 30  | 4.00                         | 6.00    | 5.40    | 30  |
| 11                    | 9.39    | 48.23   | 31.80   | 30  | 4.00                         | 6.00    | 5.40    | 30  |
| 12                    | 11.42   | 58.42   | 32.10   | 30  | 4.00                         | 6.00    | 5.30    | 30  |
| 13                    | 11.66   | 55.30   | 33.47   | 30  | 4.00                         | 6.00    | 5.27    | 30  |
| 14                    | 11.10   | 49.46   | 29.30   | 30  | 4.00                         | 6.00    | 5.10    | 30  |
| 15                    | 9.57    | 62.79   | 27.63   | 30  | 4.00                         | 6.00    | 4.90    | 30  |
| 16                    | 9.73    | 55.77   | 21.85   | 30  | 4.00                         | 6.00    | 4.67    | 30  |
| 17                    | 6.63    | 41.29   | 18.22   | 30  | 4.00                         | 6.00    | 4.53    | 30  |
| 18                    | 5.64    | 27.50   | 11.12   | 30  | 4.00                         | 6.00    | 4.30    | 30  |
| 19                    | 4.20    | 25.80   | 12.46   | 30  | 4.00                         | 6.00    | 4.63    | 30  |
| 20                    | 2.93    | 36.33   | 12.59   | 30  | 4.00                         | 6.00    | 4.60    | 30  |
| 21                    | 4.38    | 23.77   | 11.44   | 30  | 4.00                         | 6.00    | 4.63    | 30  |
| 22                    | 4.12    | 28.45   | 11.58   | 30  | 4.00                         | 6.00    | 4.63    | 30  |
| 23                    | 3.66    | 20.49   | 9.58    | 30  | 4.00                         | 6.00    | 4.63    | 30  |
| 24                    | 4.70    | 35.50   | 10.59   | 30  | 4.00                         | 6.00    | 4.60    | 30  |
|                       | 2.93    | 62.79   | 17.77   | 720 | 1.00                         | 6.00    | 4.42    | 720 |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: MET 3

Period: 1/24/91 thru 1/31/91

Month and year of record: JANUARY, 91

| WIND SPEED (MPH) |         |         |         |     | WIND DIRECTION (DEG) |         |         |     | SIGMA THETA (DEGREES) |         |         |     |
|------------------|---------|---------|---------|-----|----------------------|---------|---------|-----|-----------------------|---------|---------|-----|
| HR               | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM              | MAXIMUM | AVERAGE | OBS | MINIMUM               | MAXIMUM | AVERAGE | OBS |
| 1                | 2.22    | 19.35   | 9.18    | 7   | 10.99                | 305.80  | 207.33  | 7   | 6.33                  | 24.53   | 10.27   | 8   |
| 2                | 2.85    | 14.31   | 7.07    | 7   | 12.46                | 330.60  | 333.25  | 7   | 6.59                  | 30.46   | 12.60   | 8   |
| 3                | 3.49    | 10.73   | 6.35    | 7   | 11.52                | 349.50  | 311.45  | 7   | 4.97                  | 25.36   | 11.06   | 8   |
| 4                | 2.82    | 11.29   | 6.74    | 7   | 12.55                | 341.30  | 189.20  | 7   | 4.53                  | 31.86   | 12.53   | 8   |
| 5                | 2.39    | 14.69   | 7.44    | 7   | 35.45                | 311.90  | 218.29  | 7   | 6.01                  | 21.98   | 11.52   | 8   |
| 6                | 4.03    | 7.94    | 5.42    | 7   | 52.03                | 209.30  | 135.06  | 7   | 6.17                  | 34.54   | 16.63   | 8   |
| 7                | 2.34    | 10.68   | 5.26    | 7   | 81.10                | 214.80  | 165.78  | 7   | 6.80                  | 23.07   | 14.20   | 8   |
| 8                | 1.45    | 13.74   | 5.80    | 7   | 95.60                | 196.00  | 156.13  | 7   | 5.62                  | 38.49   | 16.54   | 8   |
| 9                | 1.07    | 9.63    | 5.15    | 7   | 52.04                | 191.50  | 142.56  | 7   | 4.16                  | 51.07   | 13.53   | 8   |
| 10               | 3.45    | 5.58    | 4.63    | 7   | 89.80                | 349.70  | 150.28  | 7   | 4.65                  | 30.09   | 17.92   | 8   |
| 11               | 1.04    | 11.80   | 5.04    | 7   | 31.73                | 186.40  | 146.17  | 7   | 6.88                  | 52.98   | 22.75   | 8   |
| 12               | 1.25    | 8.92    | 5.80    | 7   | 35.05                | 284.60  | 161.93  | 7   | 6.73                  | 38.87   | 21.87   | 8   |
| 13               | 0.23    | 10.51   | 5.27    | 7   | 57.83                | 313.20  | 120.34  | 7   | 11.79                 | 60.40   | 29.81   | 8   |
| 14               | 0.95    | 8.06    | 4.39    | 6   | 51.11                | 245.00  | 121.57  | 6   | 6.33                  | 81.00   | 31.50   | 8   |
| 15               | 0.12    | 10.07   | 5.83    | 7   | 52.45                | 285.40  | 100.20  | 7   | 4.14                  | 81.00   | 26.27   | 8   |
| 16               | 3.57    | 9.74    | 5.92    | 7   | 55.72                | 311.60  | 88.72   | 7   | 4.80                  | 81.00   | 21.17   | 8   |
| 17               | 2.49    | 11.84   | 5.81    | 7   | 67.91                | 333.70  | 88.81   | 7   | 6.41                  | 81.00   | 20.93   | 8   |
| 18               | 3.46    | 19.47   | 9.85    | 7   | 34.92                | 343.40  | 18.97   | 7   | 7.35                  | 81.00   | 22.55   | 8   |
| 19               | 0.85    | 23.88   | 8.18    | 7   | 10.58                | 356.50  | 289.09  | 7   | 7.82                  | 81.00   | 25.65   | 8   |
| 20               | 1.66    | 18.36   | 7.67    | 7   | 12.99                | 351.10  | 274.43  | 7   | 6.96                  | 81.00   | 25.52   | 8   |
| 21               | 1.05    | 17.14   | 8.96    | 7   | 7.55                 | 290.60  | 252.23  | 7   | 6.91                  | 44.29   | 16.81   | 8   |
| 22               | 1.11    | 16.93   | 7.66    | 7   | 20.85                | 293.00  | 278.81  | 7   | 6.58                  | 27.55   | 15.60   | 8   |
| 23               | 1.79    | 15.43   | 9.38    | 7   | 19.21                | 339.10  | 285.12  | 7   | 7.79                  | 24.16   | 13.94   | 8   |
| 24               | 2.44    | 20.31   | 9.45    | 7   | 12.28                | 297.30  | 179.33  | 7   | 4.64                  | 15.23   | 8.60    | 8   |
|                  | 0.12    | 23.88   | 6.78    | 167 | 7.55                 | 356.50  | 155.43  | 1   | 4.14                  | 81.00   | 18.32   | 192 |



WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: MET 3

Period: 1/24/91 thru 1/31/91

Month and year of record: JANUARY, 91

| SOLAR RADIATION (LY/HR) |         |         |         |     | AIR TEMPERATURE (F) |         |         |     | MAXIMUM WIND SPEED (MPH) |         |         |     |
|-------------------------|---------|---------|---------|-----|---------------------|---------|---------|-----|--------------------------|---------|---------|-----|
| HR                      | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM             | MAXIMUM | AVERAGE | OBS | MINIMUM                  | MAXIMUM | AVERAGE | OBS |
| 1                       | -0.01   | 0.00    | -0.00   | 7   | 1.04                | 35.67   | 18.88   | 7   | 6.42                     | 26.07   | 14.70   | 7   |
| 2                       | -0.01   | 0.00    | -0.00   | 7   | 0.66                | 39.11   | 19.31   | 7   | 7.03                     | 27.03   | 14.45   | 7   |
| 3                       | -0.01   | 0.00    | -0.00   | 7   | -0.63               | 39.95   | 18.42   | 7   | 5.72                     | 16.99   | 12.13   | 7   |
| 4                       | 0.00    | 0.00    | 0.00    | 7   | -1.16               | 32.85   | 16.66   | 7   | 6.28                     | 18.73   | 11.35   | 7   |
| 5                       | -0.01   | 0.00    | -0.00   | 7   | -2.42               | 32.92   | 17.15   | 7   | 5.39                     | 27.30   | 13.63   | 7   |
| 6                       | 0.00    | 0.00    | 0.00    | 7   | -1.28               | 32.85   | 15.82   | 7   | 7.05                     | 21.61   | 12.73   | 7   |
| 7                       | 0.00    | 0.00    | 0.00    | 7   | -1.66               | 37.20   | 15.64   | 7   | 4.79                     | 19.79   | 10.14   | 7   |
| 8                       | 0.02    | 0.11    | 0.07    | 7   | -1.80               | 29.47   | 13.97   | 7   | 3.10                     | 21.61   | 10.39   | 7   |
| 9                       | 0.09    | 0.37    | 0.29    | 7   | -0.93               | 37.62   | 15.21   | 7   | 4.86                     | 16.86   | 9.32    | 7   |
| 10                      | 0.17    | 0.60    | 0.44    | 6   | 0.99                | 42.37   | 19.47   | 7   | 6.04                     | 16.08   | 9.45    | 7   |
| 11                      | 0.32    | 0.81    | 0.62    | 6   | 10.83               | 44.98   | 26.81   | 6   | 6.59                     | 21.15   | 11.98   | 7   |
| 12                      | 0.36    | 0.92    | 0.70    | 6   | 13.51               | 47.54   | 29.30   | 6   | 8.39                     | 24.42   | 13.33   | 7   |
| 13                      | 0.37    | 0.91    | 0.73    | 6   | 15.23               | 49.41   | 31.48   | 6   | 7.13                     | 20.24   | 11.94   | 7   |
| 14                      | 0.41    | 0.76    | 0.62    | 6   | 16.40               | 48.56   | 33.34   | 6   | 5.94                     | 13.54   | 9.89    | 6   |
| 15                      | 0.31    | 0.58    | 0.48    | 7   | 16.22               | 48.38   | 35.29   | 7   | 5.31                     | 19.68   | 11.98   | 7   |
| 16                      | 0.12    | 0.36    | 0.25    | 7   | 16.07               | 45.09   | 34.07   | 7   | 7.57                     | 18.33   | 10.79   | 7   |
| 17                      | 0.04    | 0.14    | 0.09    | 7   | 14.24               | 43.76   | 32.91   | 7   | 7.17                     | 16.97   | 11.80   | 7   |
| 18                      | 0.00    | 0.00    | 0.00    | 7   | 10.29               | 42.00   | 30.65   | 7   | 6.89                     | 34.05   | 16.93   | 7   |
| 19                      | -0.01   | 0.00    | -0.00   | 7   | 8.81                | 40.09   | 29.49   | 7   | 7.42                     | 33.56   | 16.65   | 7   |
| 20                      | -0.01   | 0.00    | -0.00   | 7   | 8.80                | 39.87   | 28.17   | 7   | 4.61                     | 27.39   | 14.30   | 7   |
| 21                      | -0.01   | 0.00    | -0.00   | 7   | 5.02                | 39.64   | 27.40   | 7   | 3.78                     | 25.83   | 14.78   | 7   |
| 22                      | -0.01   | 0.00    | -0.00   | 7   | 5.49                | 40.96   | 26.16   | 7   | 5.58                     | 33.38   | 16.78   | 7   |
| 23                      | -0.01   | 0.00    | -0.00   | 7   | 5.59                | 41.07   | 25.04   | 7   | 4.64                     | 26.27   | 16.24   | 7   |
| 24                      | 0.00    | 0.00    | 0.00    | 7   | 6.08                | 38.06   | 24.08   | 7   | 6.11                     | 28.32   | 15.56   | 7   |
|                         | -0.01   | 0.92    | 0.16    | 163 | -2.42               | 49.41   | 24.22   | 164 | 3.10                     | 34.05   | 12.99   | 167 |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: MET 3

Period: 1/24/91 thru 1/31/91

Month and year of record: JANUARY, 91

| PRECIPITATION (IN) |         |         |       |     | P-G STABILITY CLASSIFICATION |         |         |     |
|--------------------|---------|---------|-------|-----|------------------------------|---------|---------|-----|
| HR                 | MINIMUM | MAXIMUM | TOTAL | OBS | MINIMUM                      | MAXIMUM | AVERAGE | OBS |
| 1                  | 0.00    | 0.00    | 0.00  | 8   | 1.00                         | 4.00    | 3.43    | 7   |
| 2                  | 0.00    | 0.00    | 0.00  | 8   | 1.00                         | 4.00    | 3.29    | 7   |
| 3                  | 0.00    | 0.00    | 0.00  | 8   | 1.00                         | 4.00    | 3.43    | 7   |
| 4                  | 0.00    | 0.00    | 0.00  | 8   | 1.00                         | 4.00    | 3.43    | 7   |
| 5                  | 0.00    | 0.00    | 0.00  | 8   | 2.00                         | 4.00    | 3.57    | 7   |
| 6                  | 0.00    | 0.00    | 0.00  | 8   | 1.00                         | 4.00    | 2.86    | 7   |
| 7                  | 0.00    | 0.00    | 0.00  | 8   | 4.00                         | 6.00    | 5.00    | 7   |
| 8                  | 0.00    | 0.00    | 0.00  | 8   | 4.00                         | 6.00    | 4.43    | 7   |
| 9                  | 0.00    | 0.00    | 0.00  | 8   | 4.00                         | 6.00    | 5.00    | 7   |
| 10                 | 0.00    | 0.00    | 0.00  | 8   | 4.00                         | 6.00    | 5.14    | 7   |
| 11                 | 0.00    | 0.00    | 0.00  | 8   | 4.00                         | 6.00    | 5.14    | 7   |
| 12                 | 0.00    | 0.01    | 0.01  | 8   | 4.00                         | 6.00    | 5.14    | 7   |
| 13                 | 0.00    | 0.00    | 0.00  | 8   | 4.00                         | 6.00    | 4.71    | 7   |
| 14                 | 0.00    | 0.00    | 0.00  | 8   | 4.00                         | 6.00    | 5.17    | 6   |
| 15                 | 0.00    | 0.00    | 0.00  | 8   | 4.00                         | 6.00    | 5.00    | 7   |
| 16                 | 0.00    | 0.00    | 0.00  | 8   | 4.00                         | 6.00    | 4.86    | 7   |
| 17                 | 0.00    | 0.00    | 0.00  | 8   | 4.00                         | 6.00    | 4.57    | 7   |
| 18                 | 0.00    | 0.00    | 0.00  | 8   | 4.00                         | 6.00    | 4.71    | 7   |
| 19                 | 0.00    | 0.00    | 0.00  | 8   | 4.00                         | 6.00    | 4.71    | 7   |
| 20                 | 0.00    | 0.00    | 0.00  | 8   | 4.00                         | 6.00    | 4.86    | 7   |
| 21                 | 0.00    | 0.00    | 0.00  | 8   | 4.00                         | 6.00    | 4.71    | 7   |
| 22                 | 0.00    | 0.00    | 0.00  | 8   | 4.00                         | 6.00    | 5.00    | 7   |
| 23                 | 0.00    | 0.00    | 0.00  | 8   | 4.00                         | 6.00    | 4.29    | 7   |
| 24                 | 0.00    | 0.00    | 0.00  | 8   | 4.00                         | 5.00    | 4.43    | 7   |
|                    | 0.00    | 0.01    | 0.00  | 192 | 1.00                         | 6.00    | 4.45    | 167 |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: MET 3

Period: 2/ 1/91 thru 2/28/91

Month and year of record: FEBRUARY, 91

| WIND SPEED (MPH) |         |         |         |     | WIND DIRECTION (DEG) |         |         |     | SIGMA THETA (DEGREES) |         |         |     |
|------------------|---------|---------|---------|-----|----------------------|---------|---------|-----|-----------------------|---------|---------|-----|
| HR               | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM              | MAXIMUM | AVERAGE | OBS | MINIMUM               | MAXIMUM | AVERAGE | OBS |
| 1                | 3.02    | 11.43   | 6.19    | 28  | 129.40               | 310.80  | 187.67  | 28  | 3.47                  | 39.27   | 16.24   | 28  |
| 2                | 2.73    | 8.97    | 6.19    | 28  | 150.70               | 345.10  | 195.30  | 28  | 3.27                  | 38.34   | 14.44   | 28  |
| 3                | 1.63    | 11.23   | 5.98    | 28  | 48.12                | 314.10  | 196.97  | 28  | 4.99                  | 31.46   | 14.67   | 28  |
| 4                | 2.93    | 11.00   | 5.95    | 28  | 141.40               | 355.40  | 197.75  | 28  | 4.02                  | 31.87   | 11.91   | 28  |
| 5                | 1.85    | 11.53   | 6.44    | 28  | 148.80               | 300.10  | 202.24  | 28  | 4.05                  | 36.85   | 11.60   | 28  |
| 6                | 3.15    | 11.50   | 6.48    | 28  | 81.70                | 270.10  | 205.85  | 28  | 3.18                  | 22.25   | 8.54    | 28  |
| 7                | 2.56    | 12.51   | 6.72    | 28  | 53.85                | 302.70  | 201.36  | 28  | 2.98                  | 28.45   | 9.60    | 28  |
| 8                | 3.32    | 10.13   | 6.68    | 28  | 60.84                | 341.90  | 208.49  | 28  | 3.60                  | 37.10   | 9.85    | 28  |
| 9                | 2.41    | 10.72   | 6.51    | 28  | 119.40               | 358.30  | 214.44  | 28  | 3.42                  | 37.87   | 10.12   | 28  |
| 10               | 1.99    | 11.66   | 6.87    | 28  | 1.57                 | 356.20  | 223.98  | 28  | 3.76                  | 14.84   | 9.79    | 28  |
| 11               | 0.94    | 16.64   | 6.57    | 27  | 0.02                 | 353.10  | 259.70  | 27  | 4.10                  | 23.47   | 9.47    | 28  |
| 12               | 1.75    | 18.74   | 6.88    | 28  | 1.77                 | 357.20  | 327.20  | 28  | 4.02                  | 25.35   | 9.60    | 28  |
| 13               | 1.55    | 22.85   | 6.52    | 28  | 0.72                 | 359.00  | 19.67   | 28  | 3.06                  | 44.44   | 9.05    | 28  |
| 14               | 0.16    | 24.83   | 7.15    | 28  | 3.23                 | 347.10  | 25.06   | 28  | 2.55                  | 25.88   | 9.10    | 28  |
| 15               | 1.63    | 21.89   | 8.01    | 28  | 0.91                 | 358.30  | 31.21   | 28  | 5.23                  | 38.39   | 12.14   | 28  |
| 16               | 4.21    | 20.98   | 8.49    | 28  | 1.17                 | 359.70  | 44.77   | 28  | 6.59                  | 39.79   | 12.94   | 28  |
| 17               | 1.89    | 18.70   | 7.39    | 28  | 3.53                 | 356.00  | 38.99   | 28  | 7.87                  | 43.56   | 19.63   | 28  |
| 18               | 0.62    | 14.40   | 6.10    | 28  | 2.99                 | 356.00  | 44.45   | 28  | 9.53                  | 47.57   | 21.01   | 28  |
| 19               | 0.81    | 15.22   | 5.55    | 28  | 3.02                 | 348.50  | 150.03  | 28  | 10.31                 | 45.39   | 23.23   | 28  |
| 20               | 1.06    | 15.38   | 5.57    | 28  | 5.80                 | 312.00  | 175.06  | 28  | 9.15                  | 55.13   | 24.50   | 28  |
| 21               | 1.04    | 9.78    | 5.10    | 28  | 42.04                | 310.40  | 172.77  | 28  | 7.86                  | 47.98   | 22.54   | 28  |
| 22               | 2.05    | 11.23   | 5.52    | 28  | 77.00                | 266.80  | 181.04  | 28  | 7.81                  | 46.73   | 17.45   | 28  |
| 23               | 1.83    | 16.10   | 6.24    | 28  | 59.71                | 336.80  | 191.49  | 28  | 6.38                  | 32.56   | 13.40   | 28  |
| 24               | 3.76    | 17.18   | 6.46    | 28  | 108.30               | 341.70  | 187.76  | 28  | 3.63                  | 24.81   | 11.81   | 28  |
|                  | 0.16    | 24.83   | 6.48    | 671 | 0.02                 | 359.70  | 195.19  | 1   | 2.55                  | 55.13   | 13.86   | 672 |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: MET 3

Period: 2/ 1/91 thru 2/28/91

Month and year of record: FEBRUARY, 91

| SOLAR RADIATION (LY/HR) |         |         |         |     | AIR TEMPERATURE (F) |         |         |     | MAXIMUM WIND SPEED (MPH) |         |         |     |
|-------------------------|---------|---------|---------|-----|---------------------|---------|---------|-----|--------------------------|---------|---------|-----|
| HR                      | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM             | MAXIMUM | AVERAGE | OBS | MINIMUM                  | MAXIMUM | AVERAGE | OBS |
| 1                       | -0.01   | 0.00    | -0.00   | 28  | 21.36               | 44.45   | 34.15   | 28  | 4.53                     | 21.37   | 9.55    | 28  |
| 2                       | -0.01   | 0.00    | -0.00   | 28  | 18.70               | 42.41   | 33.15   | 28  | 4.75                     | 22.96   | 9.63    | 28  |
| 3                       | -0.01   | 0.00    | -0.00   | 28  | 16.15               | 43.19   | 32.69   | 28  | 4.56                     | 21.47   | 9.29    | 28  |
| 4                       | -0.01   | 0.00    | -0.00   | 28  | 15.13               | 43.33   | 32.03   | 28  | 5.41                     | 15.44   | 9.09    | 28  |
| 5                       | -0.01   | 0.00    | -0.00   | 28  | 15.63               | 45.63   | 32.04   | 28  | 5.64                     | 23.70   | 9.76    | 28  |
| 6                       | -0.01   | 0.00    | -0.00   | 28  | 16.79               | 46.63   | 31.79   | 28  | 5.61                     | 21.81   | 10.20   | 28  |
| 7                       | -0.01   | 0.02    | 0.00    | 28  | 19.45               | 45.64   | 31.38   | 28  | 6.32                     | 26.99   | 10.47   | 28  |
| 8                       | 0.01    | 0.30    | 0.11    | 28  | 22.28               | 46.46   | 32.17   | 28  | 5.95                     | 17.45   | 10.47   | 28  |
| 9                       | 0.07    | 0.59    | 0.32    | 28  | 23.50               | 49.08   | 35.40   | 28  | 5.93                     | 15.29   | 10.34   | 28  |
| 10                      | 0.14    | 0.74    | 0.52    | 28  | 24.45               | 51.56   | 39.72   | 28  | 4.72                     | 20.56   | 11.34   | 28  |
| 11                      | 0.23    | 0.96    | 0.65    | 28  | 26.58               | 55.49   | 43.65   | 27  | 5.41                     | 28.36   | 12.37   | 27  |
| 12                      | 0.25    | 1.09    | 0.74    | 28  | 26.63               | 56.66   | 46.07   | 28  | 4.34                     | 29.32   | 12.85   | 28  |
| 13                      | 0.29    | 1.10    | 0.75    | 28  | 26.67               | 57.90   | 48.14   | 28  | 4.83                     | 35.42   | 13.18   | 28  |
| 14                      | 0.31    | 1.00    | 0.71    | 28  | 25.52               | 58.16   | 49.17   | 28  | 4.82                     | 35.04   | 14.12   | 28  |
| 15                      | 0.20    | 0.85    | 0.56    | 28  | 24.70               | 60.13   | 49.55   | 28  | 7.38                     | 34.99   | 15.00   | 28  |
| 16                      | 0.12    | 0.60    | 0.38    | 28  | 25.27               | 61.71   | 49.30   | 28  | 7.65                     | 30.47   | 14.66   | 28  |
| 17                      | 0.04    | 0.23    | 0.14    | 28  | 25.36               | 62.05   | 47.99   | 28  | 4.37                     | 31.46   | 13.18   | 28  |
| 18                      | 0.00    | 0.04    | 0.01    | 28  | 25.14               | 56.41   | 45.23   | 28  | 1.60                     | 25.35   | 10.04   | 28  |
| 19                      | -0.01   | 0.00    | -0.01   | 28  | 24.47               | 52.24   | 42.49   | 28  | 3.29                     | 24.80   | 10.25   | 28  |
| 20                      | -0.01   | 0.00    | -0.01   | 28  | 24.40               | 50.16   | 40.30   | 28  | 3.27                     | 23.76   | 10.00   | 28  |
| 21                      | -0.01   | 0.00    | -0.00   | 28  | 23.81               | 49.55   | 38.51   | 28  | 3.73                     | 18.35   | 9.60    | 28  |
| 22                      | -0.01   | 0.00    | -0.00   | 28  | 23.89               | 48.33   | 37.26   | 28  | 4.60                     | 18.26   | 9.18    | 28  |
| 23                      | -0.01   | 0.00    | -0.00   | 28  | 23.26               | 48.19   | 35.97   | 28  | 4.83                     | 28.72   | 9.90    | 28  |
| 24                      | -0.01   | 0.00    | -0.00   | 28  | 23.53               | 46.76   | 34.83   | 28  | 6.59                     | 28.47   | 9.88    | 28  |
|                         | -0.01   | 1.10    | 0.20    | 672 | 15.13               | 62.05   | 39.28   | 671 | 1.60                     | 35.42   | 11.01   | 671 |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: MET 3

Period: 2/ 1/91 thru 2/28/91

Month and year of record: FEBRUARY, 91

| PRECIPITATION (IN) |         |         |       |     | P-G STABILITY CLASSIFICATION |         |         |     |
|--------------------|---------|---------|-------|-----|------------------------------|---------|---------|-----|
| HR                 | MINIMUM | MAXIMUM | TOTAL | OBS | MINIMUM                      | MAXIMUM | AVERAGE | OBS |
| 1                  | 0.00    | 0.00    | 0.00  | 28  | 1.00                         | 4.00    | 2.89    | 28  |
| 2                  | 0.00    | 0.00    | 0.00  | 28  | 1.00                         | 4.00    | 3.11    | 28  |
| 3                  | 0.00    | 0.00    | 0.00  | 28  | 1.00                         | 4.00    | 2.96    | 28  |
| 4                  | 0.00    | 0.00    | 0.00  | 28  | 1.00                         | 4.00    | 3.50    | 28  |
| 5                  | 0.00    | 0.00    | 0.00  | 28  | 1.00                         | 4.00    | 3.43    | 28  |
| 6                  | 0.00    | 0.00    | 0.00  | 28  | 2.00                         | 4.00    | 3.86    | 28  |
| 7                  | 0.00    | 0.00    | 0.00  | 28  | 1.00                         | 6.00    | 4.00    | 28  |
| 8                  | 0.00    | 0.00    | 0.00  | 28  | 4.00                         | 5.00    | 4.39    | 28  |
| 9                  | 0.00    | 0.00    | 0.00  | 28  | 4.00                         | 6.00    | 4.64    | 28  |
| 10                 | 0.00    | 0.00    | 0.00  | 28  | 4.00                         | 5.00    | 4.25    | 28  |
| 11                 | 0.00    | 0.00    | 0.00  | 28  | 4.00                         | 5.00    | 4.59    | 27  |
| 12                 | 0.00    | 0.00    | 0.00  | 28  | 4.00                         | 6.00    | 4.68    | 28  |
| 13                 | 0.00    | 0.00    | 0.00  | 28  | 4.00                         | 6.00    | 4.82    | 28  |
| 14                 | 0.00    | 0.00    | 0.00  | 28  | 4.00                         | 6.00    | 4.61    | 28  |
| 15                 | 0.00    | 0.00    | 0.00  | 28  | 4.00                         | 6.00    | 4.36    | 28  |
| 16                 | 0.00    | 0.00    | 0.00  | 28  | 4.00                         | 6.00    | 4.25    | 28  |
| 17                 | 0.00    | 0.00    | 0.00  | 28  | 4.00                         | 6.00    | 4.68    | 28  |
| 18                 | 0.00    | 0.00    | 0.00  | 28  | 4.00                         | 6.00    | 4.96    | 28  |
| 19                 | 0.00    | 0.00    | 0.00  | 28  | 4.00                         | 6.00    | 5.21    | 28  |
| 20                 | 0.00    | 0.00    | 0.00  | 28  | 4.00                         | 6.00    | 4.93    | 28  |
| 21                 | 0.00    | 0.00    | 0.00  | 28  | 4.00                         | 6.00    | 5.14    | 28  |
| 22                 | 0.00    | 0.00    | 0.00  | 28  | 4.00                         | 6.00    | 4.71    | 28  |
| 23                 | 0.00    | 0.00    | 0.00  | 28  | 4.00                         | 6.00    | 4.46    | 28  |
| 24                 | 0.00    | 0.00    | 0.00  | 28  | 4.00                         | 6.00    | 4.61    | 28  |
|                    | 0.00    | 0.00    | 0.00  | 672 | 1.00                         | 6.00    | 4.29    | 671 |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: MET 3

Period: 3/ 1/91 thru 3/31/91

Month and year of record: MARCH, 91

| WIND SPEED (MPH) |         |         |         |     | WIND DIRECTION (DEG) |         |         |     | SIGMA THETA (DEGREES) |         |         |     |
|------------------|---------|---------|---------|-----|----------------------|---------|---------|-----|-----------------------|---------|---------|-----|
| HR               | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM              | MAXIMUM | AVERAGE | OBS | MINIMUM               | MAXIMUM | AVERAGE | OBS |
| 1                | 0.45    | 22.09   | 7.97    | 31  | 9.82                 | 357.40  | 225.71  | 31  | 5.75                  | 43.39   | 11.27   | 31  |
| 2                | 2.10    | 23.01   | 8.54    | 31  | 2.91                 | 342.90  | 213.60  | 31  | 5.32                  | 32.57   | 11.01   | 31  |
| 3                | 0.58    | 21.37   | 8.37    | 31  | 6.96                 | 332.70  | 240.47  | 31  | 3.97                  | 41.38   | 12.44   | 31  |
| 4                | 3.14    | 18.39   | 8.46    | 31  | 35.93                | 359.50  | 236.37  | 31  | 6.19                  | 48.87   | 12.64   | 31  |
| 5                | 1.39    | 18.67   | 8.39    | 31  | 2.74                 | 357.10  | 254.89  | 31  | 6.07                  | 42.76   | 11.71   | 31  |
| 6                | 2.25    | 21.28   | 7.19    | 31  | 9.76                 | 356.80  | 242.13  | 31  | 3.54                  | 33.53   | 11.72   | 31  |
| 7                | 1.99    | 17.56   | 6.90    | 31  | 20.25                | 325.00  | 212.65  | 31  | 4.24                  | 37.55   | 11.97   | 31  |
| 8                | 1.41    | 15.61   | 6.90    | 31  | 22.49                | 330.80  | 206.46  | 31  | 4.75                  | 24.48   | 11.16   | 31  |
| 9                | 2.05    | 20.51   | 7.33    | 31  | 6.34                 | 356.20  | 239.38  | 31  | 5.56                  | 45.89   | 13.41   | 31  |
| 10               | 1.81    | 21.78   | 7.52    | 31  | 1.49                 | 353.50  | 223.35  | 31  | 5.73                  | 37.03   | 13.41   | 31  |
| 11               | 0.91    | 24.17   | 8.07    | 31  | 25.15                | 355.70  | 244.69  | 31  | 4.51                  | 52.65   | 11.36   | 31  |
| 12               | 1.03    | 20.56   | 9.24    | 31  | 2.83                 | 347.90  | 291.26  | 31  | 5.12                  | 31.20   | 11.65   | 31  |
| 13               | 0.50    | 23.19   | 9.24    | 31  | 9.58                 | 335.90  | 309.38  | 31  | 4.81                  | 34.06   | 13.11   | 31  |
| 14               | 1.18    | 25.30   | 10.51   | 31  | 4.03                 | 352.90  | 331.65  | 31  | 6.91                  | 30.80   | 13.35   | 31  |
| 15               | 1.09    | 26.29   | 11.29   | 31  | 5.56                 | 329.70  | 333.06  | 31  | 7.14                  | 32.41   | 15.72   | 31  |
| 16               | 1.47    | 28.44   | 11.26   | 31  | 1.49                 | 326.40  | 18.55   | 31  | 8.93                  | 37.79   | 19.75   | 31  |
| 17               | 0.21    | 24.14   | 11.87   | 31  | 11.97                | 344.70  | 23.14   | 31  | 8.04                  | 57.45   | 27.94   | 31  |
| 18               | 2.48    | 22.29   | 11.77   | 31  | 6.90                 | 320.30  | 59.02   | 31  | 8.49                  | 55.37   | 26.09   | 31  |
| 19               | 1.86    | 24.74   | 10.62   | 31  | 10.68                | 348.30  | 104.42  | 31  | 9.80                  | 64.27   | 27.03   | 31  |
| 20               | 2.03    | 25.42   | 9.41    | 31  | 4.97                 | 314.00  | 155.64  | 31  | 9.02                  | 57.72   | 25.46   | 31  |
| 21               | 2.55    | 18.40   | 8.18    | 31  | 2.83                 | 355.60  | 202.37  | 31  | 8.41                  | 54.04   | 23.00   | 31  |
| 22               | 1.56    | 14.75   | 6.91    | 31  | 10.48                | 351.00  | 199.17  | 31  | 8.53                  | 44.31   | 21.06   | 31  |
| 23               | 0.46    | 22.77   | 7.27    | 31  | 3.30                 | 352.50  | 213.85  | 31  | 8.35                  | 35.48   | 16.24   | 31  |
| 24               | 1.52    | 20.51   | 7.72    | 31  | 10.01                | 330.70  | 220.61  | 31  | 6.87                  | 40.42   | 13.26   | 31  |
|                  | 0.21    | 28.44   | 8.79    | 744 | 1.49                 | 359.50  | 233.00  | 1   | 3.54                  | 64.27   | 16.07   | 744 |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: MET 3

Period: 3/ 1/91 thru 3/31/91

Month and year of record: MARCH, 91

| SOLAR RADIATION (LY/HR) |         |         |         |     | AIR TEMPERATURE (F) |         |         |     | MAXIMUM WIND SPEED (MPH) |         |         |     |
|-------------------------|---------|---------|---------|-----|---------------------|---------|---------|-----|--------------------------|---------|---------|-----|
| HR                      | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM             | MAXIMUM | AVERAGE | OBS | MINIMUM                  | MAXIMUM | AVERAGE | OBS |
| 1                       | -0.01   | 0.00    | -0.00   | 31  | 22.38               | 56.21   | 36.84   | 31  | 5.01                     | 33.82   | 13.83   | 31  |
| 2                       | -0.01   | 0.00    | -0.00   | 31  | 21.43               | 55.71   | 36.58   | 31  | 4.52                     | 32.78   | 14.67   | 31  |
| 3                       | -0.01   | 0.00    | -0.00   | 31  | 21.10               | 54.43   | 36.05   | 31  | 5.59                     | 34.13   | 14.99   | 31  |
| 4                       | -0.01   | 0.00    | -0.00   | 31  | 21.14               | 53.63   | 35.61   | 31  | 5.92                     | 31.17   | 14.54   | 31  |
| 5                       | -0.01   | 0.00    | -0.00   | 31  | 21.19               | 52.98   | 35.29   | 31  | 4.68                     | 33.92   | 14.40   | 31  |
| 6                       | -0.01   | 0.00    | -0.00   | 31  | 20.55               | 52.85   | 34.36   | 31  | 4.44                     | 36.88   | 12.58   | 31  |
| 7                       | 0.00    | 0.19    | 0.05    | 31  | 19.62               | 53.48   | 34.10   | 31  | 4.80                     | 26.31   | 11.76   | 31  |
| 8                       | 0.06    | 0.49    | 0.26    | 31  | 19.15               | 53.39   | 36.33   | 31  | 4.01                     | 28.43   | 12.54   | 31  |
| 9                       | 0.08    | 0.79    | 0.49    | 31  | 20.18               | 55.62   | 40.32   | 31  | 5.78                     | 31.21   | 13.65   | 31  |
| 10                      | 0.10    | 1.02    | 0.71    | 31  | 23.72               | 57.74   | 43.20   | 31  | 5.45                     | 34.43   | 15.26   | 31  |
| 11                      | 0.29    | 1.19    | 0.93    | 31  | 28.19               | 60.97   | 46.24   | 31  | 5.96                     | 35.37   | 17.03   | 31  |
| 12                      | 0.26    | 1.31    | 1.03    | 31  | 31.21               | 64.29   | 48.24   | 31  | 8.75                     | 30.69   | 19.31   | 31  |
| 13                      | 0.24    | 1.34    | 1.02    | 31  | 32.32               | 65.70   | 49.65   | 31  | 7.30                     | 35.23   | 20.47   | 31  |
| 14                      | 0.07    | 1.34    | 0.95    | 31  | 31.91               | 66.65   | 50.64   | 31  | 10.27                    | 37.99   | 21.69   | 31  |
| 15                      | 0.04    | 1.05    | 0.74    | 31  | 33.52               | 67.68   | 51.10   | 31  | 7.15                     | 40.61   | 21.49   | 31  |
| 16                      | 0.11    | 0.74    | 0.50    | 31  | 34.04               | 67.61   | 50.92   | 31  | 12.03                    | 39.58   | 21.27   | 31  |
| 17                      | 0.04    | 0.48    | 0.27    | 31  | 34.78               | 65.89   | 50.32   | 31  | 6.20                     | 38.72   | 20.84   | 31  |
| 18                      | 0.01    | 0.16    | 0.08    | 31  | 32.05               | 64.05   | 48.26   | 31  | 6.45                     | 33.58   | 20.58   | 31  |
| 19                      | -0.01   | 0.00    | -0.00   | 31  | 30.32               | 62.15   | 44.79   | 31  | 5.97                     | 45.28   | 18.53   | 31  |
| 20                      | -0.01   | 0.00    | -0.01   | 31  | 29.34               | 59.54   | 41.86   | 31  | 5.00                     | 45.06   | 16.65   | 31  |
| 21                      | -0.01   | 0.00    | -0.01   | 31  | 26.91               | 59.21   | 40.37   | 31  | 3.79                     | 30.56   | 14.71   | 31  |
| 22                      | -0.01   | 0.00    | -0.00   | 31  | 25.55               | 57.89   | 39.64   | 31  | 3.60                     | 24.26   | 12.05   | 31  |
| 23                      | -0.01   | 0.00    | -0.00   | 31  | 24.40               | 57.46   | 38.75   | 31  | 6.18                     | 31.68   | 12.31   | 31  |
| 24                      | -0.01   | 0.00    | -0.00   | 31  | 23.27               | 57.13   | 37.89   | 31  | 6.21                     | 41.34   | 14.64   | 31  |
|                         | -0.01   | 1.34    | 0.29    | 744 | 19.15               | 67.68   | 41.97   | 744 | 3.60                     | 45.28   | 16.24   | 744 |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: MET 3

Period: 3/ 1/91 thru 3/31/91

Month and year of record: MARCH, 91

| PRECIPITATION (IN) |         |         |       |     | P-G STABILITY CLASSIFICATION |         |         |     |
|--------------------|---------|---------|-------|-----|------------------------------|---------|---------|-----|
| HR                 | MINIMUM | MAXIMUM | TOTAL | OBS | MINIMUM                      | MAXIMUM | AVERAGE | OBS |
| 1                  | 0.00    | 0.01    | 0.01  | 31  | 1.00                         | 4.00    | 3.65    | 31  |
| 2                  | 0.00    | 0.00    | 0.00  | 31  | 1.00                         | 4.00    | 3.61    | 31  |
| 3                  | 0.00    | 0.00    | 0.00  | 31  | 1.00                         | 4.00    | 3.61    | 31  |
| 4                  | 0.00    | 0.02    | 0.02  | 31  | 1.00                         | 4.00    | 3.58    | 31  |
| 5                  | 0.00    | 0.01    | 0.01  | 31  | 1.00                         | 5.00    | 3.65    | 31  |
| 6                  | 0.00    | 0.00    | 0.00  | 31  | 1.00                         | 4.00    | 3.42    | 31  |
| 7                  | 0.00    | 0.00    | 0.00  | 31  | 1.00                         | 4.00    | 3.39    | 31  |
| 8                  | 0.00    | 0.00    | 0.00  | 31  | 4.00                         | 5.00    | 4.26    | 31  |
| 9                  | 0.00    | 0.00    | 0.00  | 31  | 4.00                         | 6.00    | 4.39    | 31  |
| 10                 | 0.00    | 0.06    | 0.06  | 31  | 4.00                         | 6.00    | 4.48    | 31  |
| 11                 | 0.00    | 0.00    | 0.00  | 31  | 4.00                         | 6.00    | 4.45    | 31  |
| 12                 | 0.00    | 0.00    | 0.00  | 31  | 4.00                         | 6.00    | 4.52    | 31  |
| 13                 | 0.00    | 0.01    | 0.01  | 31  | 4.00                         | 6.00    | 4.39    | 31  |
| 14                 | 0.00    | 0.00    | 0.00  | 31  | 4.00                         | 6.00    | 4.23    | 31  |
| 15                 | 0.00    | 0.09    | 0.09  | 31  | 4.00                         | 6.00    | 4.29    | 31  |
| 16                 | 0.00    | 0.01    | 0.01  | 31  | 4.00                         | 6.00    | 4.35    | 31  |
| 17                 | 0.00    | 0.00    | 0.00  | 31  | 4.00                         | 6.00    | 4.39    | 31  |
| 18                 | 0.00    | 0.00    | 0.00  | 31  | 4.00                         | 6.00    | 4.26    | 31  |
| 19                 | 0.00    | 0.00    | 0.00  | 31  | 4.00                         | 6.00    | 4.39    | 31  |
| 20                 | 0.00    | 0.01    | 0.01  | 31  | 4.00                         | 6.00    | 4.42    | 31  |
| 21                 | 0.00    | 0.01    | 0.02  | 31  | 4.00                         | 6.00    | 4.55    | 31  |
| 22                 | 0.00    | 0.11    | 0.11  | 31  | 4.00                         | 6.00    | 4.55    | 31  |
| 23                 | 0.00    | 0.09    | 0.09  | 31  | 4.00                         | 6.00    | 4.48    | 31  |
| 24                 | 0.00    | 0.04    | 0.04  | 31  | 4.00                         | 6.00    | 4.39    | 31  |
|                    | 0.00    | 0.11    | 0.00  | 744 | 1.00                         | 6.00    | 4.15    | 744 |



WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: MET 3

Period: 4/ 1/91 thru 4/30/91

Month and year of record: APRIL, 91

| WIND SPEED (MPH) |         |         |         |     | WIND DIRECTION (DEG) |         |         |     | SIGMA THETA (DEGREES) |         |         |     |
|------------------|---------|---------|---------|-----|----------------------|---------|---------|-----|-----------------------|---------|---------|-----|
| HR               | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM              | MAXIMUM | AVERAGE | OBS | MINIMUM               | MAXIMUM | AVERAGE | OBS |
| 1                | 2.27    | 15.37   | 6.31    | 30  | 15.38                | 350.70  | 216.40  | 30  | 4.56                  | 34.24   | 10.24   | 30  |
| 2                | 2.40    | 16.11   | 6.43    | 30  | 31.37                | 355.80  | 239.20  | 30  | 4.96                  | 30.45   | 11.37   | 30  |
| 3                | 2.52    | 13.93   | 6.18    | 30  | 18.44                | 349.50  | 239.31  | 30  | 5.41                  | 34.82   | 12.39   | 30  |
| 4                | 0.79    | 13.53   | 5.65    | 30  | 3.01                 | 354.50  | 244.39  | 30  | 6.42                  | 34.93   | 12.41   | 30  |
| 5                | 1.77    | 12.45   | 5.45    | 30  | 1.17                 | 348.70  | 246.14  | 30  | 5.36                  | 36.54   | 13.37   | 30  |
| 6                | 1.55    | 11.82   | 5.90    | 30  | 41.82                | 358.30  | 239.66  | 29  | 6.08                  | 30.81   | 12.66   | 30  |
| 7                | 2.64    | 12.10   | 6.25    | 29  | 8.17                 | 358.10  | 246.16  | 29  | 5.54                  | 35.17   | 12.13   | 30  |
| 8                | 2.93    | 20.37   | 7.37    | 29  | 0.93                 | 341.40  | 274.92  | 29  | 5.93                  | 41.50   | 13.23   | 30  |
| 9                | 0.51    | 16.57   | 6.68    | 30  | 4.89                 | 357.60  | 272.45  | 30  | 6.05                  | 38.24   | 13.95   | 30  |
| 10               | 0.37    | 15.70   | 6.18    | 30  | 4.50                 | 352.50  | 45.50   | 30  | 5.49                  | 29.98   | 14.06   | 30  |
| 11               | 0.25    | 16.92   | 6.55    | 30  | 3.23                 | 354.30  | 67.15   | 30  | 4.29                  | 42.94   | 15.15   | 30  |
| 12               | 1.57    | 19.33   | 7.42    | 30  | 3.95                 | 350.80  | 47.48   | 30  | 3.90                  | 35.58   | 13.50   | 29  |
| 13               | 0.72    | 19.02   | 7.60    | 30  | 0.81                 | 349.00  | 59.82   | 30  | 5.40                  | 31.34   | 11.65   | 29  |
| 14               | 1.75    | 22.52   | 8.54    | 30  | 2.04                 | 355.00  | 28.21   | 30  | 7.32                  | 32.43   | 13.45   | 29  |
| 15               | 1.51    | 25.70   | 9.64    | 30  | 10.55                | 359.50  | 30.58   | 30  | 8.20                  | 3499.50 | 133.64  | 30  |
| 16               | 1.74    | 23.02   | 9.68    | 30  | 8.89                 | 357.30  | 38.37   | 30  | 7.76                  | 48.07   | 22.32   | 30  |
| 17               | 2.11    | 22.51   | 9.54    | 30  | 12.83                | 358.60  | 33.21   | 30  | 6.32                  | 63.78   | 27.14   | 30  |
| 18               | 3.85    | 20.92   | 9.46    | 30  | 2.65                 | 357.40  | 40.41   | 30  | 5.27                  | 50.74   | 25.30   | 30  |
| 19               | 4.15    | 17.17   | 9.29    | 30  | 5.48                 | 354.50  | 13.45   | 30  | 10.37                 | 52.63   | 25.96   | 30  |
| 20               | 1.40    | 19.54   | 8.55    | 30  | 0.77                 | 352.20  | 27.43   | 30  | 12.13                 | 56.69   | 27.11   | 30  |
| 21               | 0.36    | 18.80   | 7.91    | 30  | 10.11                | 353.40  | 139.34  | 30  | 9.58                  | 49.78   | 23.57   | 30  |
| 22               | 1.92    | 19.31   | 7.62    | 30  | 1.96                 | 344.00  | 174.03  | 30  | 8.84                  | 49.90   | 20.34   | 30  |
| 23               | 1.02    | 16.74   | 6.92    | 30  | 0.49                 | 358.40  | 182.51  | 30  | 9.36                  | 41.81   | 18.33   | 30  |
| 24               | 1.55    | 17.35   | 6.83    | 30  | 12.81                | 346.60  | 194.12  | 30  | 5.94                  | 38.48   | 15.57   | 30  |
|                  | 0.25    | 25.70   | 7.42    | 718 | 0.49                 | 359.50  | 278.50  | 1   | 3.90                  | 3499.50 | 21.65   | 717 |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: MET 3

Period: 4/ 1/91 thru 4/30/91

Month and year of record: APRIL, 91

| SOLAR RADIATION (LY/HR) |         |         |         |     | AIR TEMPERATURE (F) |         |         |     | MAXIMUM WIND SPEED (MPH) |         |         |     |
|-------------------------|---------|---------|---------|-----|---------------------|---------|---------|-----|--------------------------|---------|---------|-----|
| HR                      | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM             | MAXIMUM | AVERAGE | OBS | MINIMUM                  | MAXIMUM | AVERAGE | OBS |
| 1                       | -0.01   | 0.00    | -0.00   | 30  | 26.45               | 60.26   | 41.69   | 30  | 4.78                     | 21.84   | 11.42   | 30  |
| 2                       | -0.01   | 0.00    | -0.00   | 30  | 25.56               | 59.52   | 40.92   | 30  | 5.77                     | 24.33   | 11.29   | 30  |
| 3                       | -0.01   | 0.00    | -0.00   | 30  | 22.90               | 60.06   | 40.17   | 30  | 5.79                     | 23.42   | 10.38   | 30  |
| 4                       | -0.01   | 0.00    | -0.00   | 30  | 19.09               | 58.14   | 39.14   | 30  | 4.84                     | 25.98   | 10.16   | 30  |
| 5                       | -0.01   | 0.00    | -0.00   | 30  | 16.39               | 56.62   | 37.97   | 30  | 4.11                     | 22.88   | 9.37    | 30  |
| 6                       | 0.00    | 0.06    | 0.02    | 30  | 16.29               | 55.58   | 37.42   | 30  | 5.23                     | 24.39   | 10.05   | 30  |
| 7                       | 0.02    | 0.35    | 0.15    | 30  | 20.86               | 54.51   | 38.32   | 30  | 4.36                     | 23.69   | 10.50   | 29  |
| 8                       | 0.05    | 0.78    | 0.36    | 30  | 23.54               | 57.22   | 41.06   | 30  | 6.02                     | 34.53   | 12.49   | 29  |
| 9                       | 0.09    | 1.11    | 0.62    | 30  | 27.48               | 63.84   | 44.12   | 30  | 4.19                     | 28.49   | 12.29   | 30  |
| 10                      | 0.17    | 1.37    | 0.83    | 30  | 30.42               | 70.40   | 47.18   | 30  | 4.76                     | 26.13   | 13.04   | 30  |
| 11                      | 0.25    | 1.46    | 1.04    | 30  | 30.16               | 73.90   | 49.57   | 30  | 7.39                     | 25.33   | 13.81   | 30  |
| 12                      | 0.39    | 1.50    | 1.13    | 30  | 29.46               | 75.90   | 51.35   | 30  | 6.71                     | 31.26   | 15.61   | 30  |
| 13                      | 0.14    | 1.47    | 1.01    | 30  | 30.17               | 77.50   | 52.65   | 30  | 8.69                     | 34.79   | 17.01   | 30  |
| 14                      | 0.21    | 1.35    | 0.84    | 30  | 30.58               | 78.60   | 53.47   | 30  | 9.44                     | 35.66   | 19.12   | 30  |
| 15                      | 0.14    | 1.15    | 0.73    | 30  | 31.14               | 78.70   | 53.91   | 30  | 7.95                     | 39.48   | 18.95   | 30  |
| 16                      | 0.16    | 0.90    | 0.57    | 30  | 30.64               | 78.10   | 54.09   | 30  | 10.20                    | 35.30   | 18.91   | 30  |
| 17                      | 0.07    | 0.58    | 0.37    | 30  | 30.23               | 78.10   | 54.09   | 30  | 7.95                     | 33.79   | 17.64   | 30  |
| 18                      | 0.03    | 0.33    | 0.13    | 30  | 29.36               | 74.70   | 52.91   | 30  | 8.34                     | 31.09   | 16.91   | 30  |
| 19                      | 0.00    | 0.04    | 0.01    | 30  | 28.81               | 73.70   | 50.53   | 30  | 7.12                     | 27.38   | 15.40   | 30  |
| 20                      | -0.01   | 0.00    | -0.00   | 30  | 27.88               | 72.40   | 48.13   | 30  | 8.53                     | 35.25   | 15.57   | 30  |
| 21                      | -0.01   | 0.00    | -0.00   | 30  | 26.45               | 66.24   | 45.97   | 30  | 6.35                     | 35.26   | 14.18   | 30  |
| 22                      | -0.01   | 0.00    | -0.00   | 30  | 25.69               | 63.65   | 44.79   | 30  | 5.05                     | 33.64   | 13.69   | 30  |
| 23                      | -0.01   | 0.00    | -0.00   | 30  | 26.22               | 62.09   | 43.09   | 30  | 4.13                     | 27.61   | 13.11   | 30  |
| 24                      | -0.01   | 0.00    | -0.00   | 30  | 26.55               | 61.11   | 42.13   | 30  | 5.36                     | 32.26   | 11.53   | 30  |
|                         | -0.01   | 1.50    | 0.32    | 720 | 16.29               | 78.70   | 46.03   | 720 | 4.11                     | 39.48   | 13.86   | 718 |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: MET 3

Period: 4/ 1/91 thru 4/30/91

Month and year of record: APRIL, 91

| PRECIPITATION (IN) |         |         |       |     | P-G STABILITY CLASSIFICATION |         |         |     |
|--------------------|---------|---------|-------|-----|------------------------------|---------|---------|-----|
| HR                 | MINIMUM | MAXIMUM | TOTAL | OBS | MINIMUM                      | MAXIMUM | AVERAGE | OBS |
| 1                  | 0.00    | 0.07    | 0.09  | 30  | 1.00                         | 4.00    | 3.77    | 30  |
| 2                  | 0.00    | 0.05    | 0.10  | 30  | 1.00                         | 4.00    | 3.53    | 30  |
| 3                  | 0.00    | 0.10    | 0.21  | 30  | 1.00                         | 4.00    | 3.47    | 30  |
| 4                  | 0.00    | 0.06    | 0.16  | 30  | 1.00                         | 4.00    | 3.47    | 30  |
| 5                  | 0.00    | 0.05    | 0.09  | 30  | 1.00                         | 4.00    | 3.37    | 30  |
| 6                  | 0.00    | 0.06    | 0.12  | 30  | 1.00                         | 4.00    | 3.33    | 30  |
| 7                  | 0.00    | 0.01    | 0.03  | 30  | 1.00                         | 4.00    | 3.45    | 29  |
| 8                  | 0.00    | 0.01    | 0.01  | 30  | 4.00                         | 6.00    | 4.41    | 29  |
| 9                  | 0.00    | 0.01    | 0.01  | 30  | 4.00                         | 6.00    | 4.60    | 30  |
| 10                 | 0.00    | 0.01    | 0.01  | 30  | 4.00                         | 6.00    | 4.70    | 30  |
| 11                 | 0.00    | 0.00    | 0.00  | 30  | 4.00                         | 6.00    | 4.70    | 30  |
| 12                 | 0.00    | 0.00    | 0.00  | 30  | 4.00                         | 6.00    | 4.52    | 29  |
| 13                 | 0.00    | 0.00    | 0.00  | 30  | 4.00                         | 5.00    | 4.28    | 29  |
| 14                 | 0.00    | 0.00    | 0.00  | 30  | 4.00                         | 6.00    | 4.31    | 29  |
| 15                 | 0.00    | 0.00    | 0.00  | 30  | 4.00                         | 6.00    | 4.28    | 29  |
| 16                 | 0.00    | 0.00    | 0.00  | 30  | 4.00                         | 6.00    | 4.50    | 30  |
| 17                 | 0.00    | 0.00    | 0.00  | 30  | 4.00                         | 6.00    | 4.50    | 30  |
| 18                 | 0.00    | 0.01    | 0.01  | 30  | 4.00                         | 6.00    | 4.63    | 30  |
| 19                 | 0.00    | 0.04    | 0.05  | 30  | 4.00                         | 6.00    | 4.50    | 30  |
| 20                 | 0.00    | 0.01    | 0.01  | 30  | 4.00                         | 6.00    | 4.60    | 30  |
| 21                 | 0.00    | 0.00    | 0.00  | 30  | 4.00                         | 6.00    | 4.63    | 30  |
| 22                 | 0.00    | 0.00    | 0.00  | 30  | 4.00                         | 6.00    | 4.73    | 30  |
| 23                 | 0.00    | 0.07    | 0.08  | 30  | 4.00                         | 6.00    | 4.57    | 30  |
| 24                 | 0.00    | 0.10    | 0.17  | 30  | 4.00                         | 6.00    | 4.37    | 30  |
|                    | 0.00    | 0.10    | 0.00  | 720 | 1.00                         | 6.00    | 4.22    | 714 |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: MET 3

Period: 5/ 1/91 thru 5/31/91

Month and year of record: MAY, 91

| WIND SPEED (MPH) |         |         |         |     | WIND DIRECTION (DEG) |         |         |     | SIGMA THETA (DEGREES) |         |         |     |
|------------------|---------|---------|---------|-----|----------------------|---------|---------|-----|-----------------------|---------|---------|-----|
| HR               | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM              | MAXIMUM | AVERAGE | OBS | MINIMUM               | MAXIMUM | AVERAGE | OBS |
| 1                | 0.95    | 23.29   | 7.09    | 31  | 3.38                 | 332.90  | 200.91  | 31  | 7.37                  | 31.10   | 11.96   | 31  |
| 2                | 0.83    | 22.10   | 6.53    | 31  | 2.22                 | 317.40  | 187.08  | 31  | 5.57                  | 28.48   | 12.40   | 31  |
| 3                | 0.26    | 17.96   | 6.53    | 31  | 16.25                | 344.00  | 195.98  | 31  | 6.24                  | 31.61   | 12.68   | 31  |
| 4                | 0.77    | 14.40   | 6.25    | 31  | 3.39                 | 354.60  | 201.86  | 31  | 6.21                  | 48.14   | 14.26   | 31  |
| 5                | 0.94    | 15.48   | 6.41    | 31  | 4.52                 | 357.50  | 199.42  | 31  | 4.73                  | 30.17   | 14.40   | 31  |
| 6                | 1.42    | 17.81   | 6.02    | 31  | 18.03                | 351.70  | 182.12  | 31  | 4.73                  | 36.02   | 13.57   | 31  |
| 7                | 1.10    | 18.37   | 6.82    | 31  | 9.41                 | 353.90  | 190.02  | 31  | 6.07                  | 37.86   | 12.66   | 31  |
| 8                | 0.17    | 22.11   | 7.49    | 31  | 0.23                 | 349.40  | 214.23  | 31  | 5.42                  | 34.45   | 13.09   | 31  |
| 9                | 0.30    | 22.88   | 7.04    | 31  | 1.05                 | 360.00  | 257.31  | 31  | 5.96                  | 35.87   | 13.95   | 31  |
| 10               | 0.42    | 21.11   | 7.18    | 31  | 5.39                 | 358.30  | 358.77  | 31  | 6.13                  | 51.91   | 14.32   | 31  |
| 11               | 1.32    | 20.49   | 7.45    | 31  | 3.18                 | 357.60  | 74.57   | 31  | 5.83                  | 28.36   | 12.53   | 31  |
| 12               | 1.39    | 20.94   | 8.28    | 31  | 4.68                 | 354.60  | 70.09   | 31  | 6.71                  | 50.00   | 13.85   | 31  |
| 13               | 1.07    | 20.86   | 10.42   | 31  | 7.88                 | 356.60  | 115.88  | 31  | 7.11                  | 31.46   | 13.29   | 31  |
| 14               | 2.89    | 23.21   | 11.42   | 31  | 5.15                 | 350.10  | 117.63  | 31  | 8.34                  | 54.32   | 16.21   | 31  |
| 15               | 1.98    | 29.37   | 11.96   | 31  | 3.25                 | 358.80  | 121.37  | 31  | 9.69                  | 54.22   | 20.82   | 31  |
| 16               | 3.11    | 29.61   | 12.37   | 31  | 0.29                 | 339.50  | 88.26   | 31  | 10.12                 | 54.54   | 22.78   | 31  |
| 17               | 2.92    | 25.34   | 12.70   | 31  | 8.95                 | 330.80  | 93.04   | 31  | 11.91                 | 50.79   | 23.62   | 31  |
| 18               | 3.04    | 23.17   | 12.72   | 31  | 19.79                | 352.00  | 77.75   | 31  | 9.78                  | 45.74   | 25.51   | 31  |
| 19               | 4.46    | 20.45   | 10.73   | 31  | 5.68                 | 345.40  | 83.82   | 31  | 8.40                  | 47.23   | 23.35   | 31  |
| 20               | 2.86    | 25.44   | 10.15   | 31  | 1.71                 | 337.00  | 84.32   | 31  | 8.25                  | 43.59   | 19.50   | 31  |
| 21               | 1.93    | 29.91   | 9.33    | 31  | 3.28                 | 354.10  | 89.21   | 31  | 8.83                  | 47.46   | 19.20   | 31  |
| 22               | 1.40    | 27.73   | 8.37    | 31  | 8.08                 | 347.00  | 176.69  | 31  | 7.81                  | 53.32   | 19.45   | 31  |
| 23               | 2.19    | 25.79   | 8.59    | 31  | 8.10                 | 355.80  | 231.71  | 31  | 8.12                  | 29.35   | 14.74   | 31  |
| 24               | 2.80    | 25.12   | 7.53    | 31  | 8.68                 | 356.90  | 228.50  | 31  | 7.30                  | 24.49   | 13.15   | 31  |
|                  | 0.17    | 29.91   | 8.72    | 744 | 0.23                 | 360.00  | 152.77  | 1   | 4.73                  | 54.54   | 16.30   | 744 |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: MET 3

Period: 5/ 1/91 thru 5/31/91

Month and year of record: MAY, 91

| SOLAR RADIATION (LY/HR) |         |         |         |     | AIR TEMPERATURE (F) |         |         |     | MAXIMUM WIND SPEED (MPH) |         |         |     |
|-------------------------|---------|---------|---------|-----|---------------------|---------|---------|-----|--------------------------|---------|---------|-----|
| HR                      | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM             | MAXIMUM | AVERAGE | OBS | MINIMUM                  | MAXIMUM | AVERAGE | OBS |
| 1                       | -0.01   | 0.00    | -0.00   | 31  | 34.48               | 66.65   | 52.35   | 31  | 4.39                     | 36.20   | 12.46   | 31  |
| 2                       | -0.01   | 0.00    | -0.00   | 31  | 34.69               | 65.89   | 51.69   | 31  | 3.98                     | 34.75   | 11.62   | 31  |
| 3                       | -0.01   | 0.00    | -0.00   | 31  | 34.48               | 64.38   | 50.83   | 31  | 3.21                     | 29.64   | 11.94   | 31  |
| 4                       | -0.01   | 0.00    | -0.00   | 31  | 32.87               | 63.88   | 50.17   | 31  | 3.29                     | 22.69   | 10.71   | 31  |
| 5                       | 0.00    | 0.01    | 0.00    | 31  | 31.50               | 63.01   | 49.15   | 31  | 2.25                     | 27.13   | 10.97   | 31  |
| 6                       | 0.01    | 0.16    | 0.08    | 31  | 30.16               | 63.58   | 49.16   | 31  | 3.42                     | 28.95   | 10.95   | 31  |
| 7                       | 0.02    | 0.44    | 0.30    | 31  | 32.81               | 64.42   | 51.70   | 31  | 3.39                     | 27.48   | 11.74   | 31  |
| 8                       | 0.07    | 0.71    | 0.56    | 31  | 36.88               | 68.00   | 54.78   | 31  | 4.79                     | 34.34   | 12.88   | 31  |
| 9                       | 0.10    | 1.01    | 0.74    | 31  | 39.94               | 71.90   | 57.27   | 31  | 5.13                     | 34.69   | 14.03   | 31  |
| 10                      | 0.14    | 1.26    | 0.95    | 31  | 41.66               | 75.50   | 59.86   | 31  | 5.04                     | 29.31   | 14.58   | 31  |
| 11                      | 0.39    | 1.43    | 1.13    | 31  | 43.31               | 79.50   | 62.49   | 31  | 6.32                     | 30.74   | 15.83   | 31  |
| 12                      | 0.39    | 1.54    | 1.23    | 31  | 43.28               | 81.70   | 64.89   | 31  | 6.36                     | 34.69   | 19.08   | 31  |
| 13                      | 0.14    | 1.53    | 1.13    | 31  | 40.57               | 83.20   | 66.41   | 31  | 11.10                    | 37.78   | 21.82   | 31  |
| 14                      | 0.03    | 1.42    | 1.04    | 31  | 40.43               | 84.30   | 67.44   | 31  | 8.59                     | 39.34   | 22.25   | 31  |
| 15                      | 0.03    | 1.26    | 0.81    | 31  | 36.96               | 82.40   | 67.88   | 31  | 10.04                    | 45.18   | 22.99   | 31  |
| 16                      | 0.05    | 0.95    | 0.66    | 31  | 36.89               | 83.70   | 67.75   | 31  | 9.69                     | 67.06   | 23.12   | 31  |
| 17                      | 0.06    | 0.72    | 0.41    | 31  | 37.39               | 82.90   | 67.26   | 31  | 9.98                     | 41.97   | 23.53   | 31  |
| 18                      | 0.03    | 0.39    | 0.20    | 31  | 37.87               | 80.50   | 66.01   | 31  | 6.25                     | 39.87   | 22.21   | 31  |
| 19                      | 0.00    | 0.11    | 0.05    | 31  | 37.03               | 78.90   | 63.40   | 31  | 7.21                     | 34.41   | 19.18   | 31  |
| 20                      | -0.01   | 0.00    | -0.00   | 31  | 36.46               | 76.10   | 60.05   | 31  | 7.12                     | 46.94   | 19.43   | 31  |
| 21                      | -0.01   | 0.00    | -0.00   | 31  | 36.08               | 69.38   | 57.73   | 31  | 6.25                     | 49.09   | 16.97   | 31  |
| 22                      | -0.01   | 0.00    | -0.00   | 31  | 35.10               | 68.75   | 56.28   | 31  | 5.40                     | 45.17   | 15.83   | 31  |
| 23                      | -0.01   | 0.00    | -0.00   | 31  | 34.59               | 68.19   | 55.30   | 31  | 4.47                     | 41.27   | 14.73   | 31  |
| 24                      | -0.01   | 0.00    | -0.00   | 31  | 33.74               | 68.00   | 54.23   | 31  | 6.95                     | 40.58   | 13.38   | 31  |
|                         | -0.01   | 1.54    | 0.39    | 744 | 30.16               | 84.30   | 58.50   | 744 | 2.25                     | 67.06   | 16.34   | 744 |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: MET 3

Period: 5/ 1/91 thru 5/31/91

Month and year of record: MAY, 91

| PRECIPITATION (IN) |         |         |       |     | P-G STABILITY CLASSIFICATION |         |         |     |
|--------------------|---------|---------|-------|-----|------------------------------|---------|---------|-----|
| HR                 | MINIMUM | MAXIMUM | TOTAL | OBS | MINIMUM                      | MAXIMUM | AVERAGE | OBS |
| 1                  | 0.00    | 0.00    | 0.00  | 31  | 1.00                         | 4.00    | 3.52    | 31  |
| 2                  | 0.00    | 0.00    | 0.00  | 31  | 1.00                         | 4.00    | 3.45    | 31  |
| 3                  | 0.00    | 0.01    | 0.02  | 31  | 1.00                         | 4.00    | 3.35    | 31  |
| 4                  | 0.00    | 0.00    | 0.00  | 31  | 1.00                         | 4.00    | 3.26    | 31  |
| 5                  | 0.00    | 0.00    | 0.00  | 31  | 1.00                         | 4.00    | 3.16    | 31  |
| 6                  | 0.00    | 0.01    | 0.01  | 31  | 1.00                         | 4.00    | 3.42    | 31  |
| 7                  | 0.00    | 0.03    | 0.03  | 31  | 1.00                         | 4.00    | 3.52    | 31  |
| 8                  | 0.00    | 0.01    | 0.01  | 31  | 4.00                         | 6.00    | 4.42    | 31  |
| 9                  | 0.00    | 0.00    | 0.00  | 31  | 4.00                         | 6.00    | 4.35    | 31  |
| 10                 | 0.00    | 0.00    | 0.00  | 31  | 4.00                         | 6.00    | 4.48    | 31  |
| 11                 | 0.00    | 0.00    | 0.00  | 31  | 4.00                         | 6.00    | 4.48    | 31  |
| 12                 | 0.00    | 0.01    | 0.01  | 31  | 4.00                         | 6.00    | 4.45    | 31  |
| 13                 | 0.00    | 0.01    | 0.02  | 31  | 4.00                         | 6.00    | 4.23    | 31  |
| 14                 | 0.00    | 0.02    | 0.02  | 31  | 4.00                         | 6.00    | 4.16    | 31  |
| 15                 | 0.00    | 0.23    | 0.32  | 31  | 4.00                         | 6.00    | 4.39    | 31  |
| 16                 | 0.00    | 0.04    | 0.05  | 31  | 4.00                         | 6.00    | 4.45    | 31  |
| 17                 | 0.00    | 0.01    | 0.02  | 31  | 4.00                         | 6.00    | 4.35    | 31  |
| 18                 | 0.00    | 0.36    | 0.39  | 31  | 4.00                         | 6.00    | 4.32    | 31  |
| 19                 | 0.00    | 0.29    | 0.32  | 31  | 4.00                         | 6.00    | 4.42    | 31  |
| 20                 | 0.00    | 0.12    | 0.14  | 31  | 4.00                         | 6.00    | 4.42    | 31  |
| 21                 | 0.00    | 0.13    | 0.21  | 31  | 4.00                         | 6.00    | 4.48    | 31  |
| 22                 | 0.00    | 0.13    | 0.21  | 31  | 4.00                         | 6.00    | 4.61    | 31  |
| 23                 | 0.00    | 0.11    | 0.17  | 31  | 4.00                         | 6.00    | 4.32    | 31  |
| 24                 | 0.00    | 0.02    | 0.03  | 31  | 4.00                         | 6.00    | 4.42    | 31  |
|                    | 0.00    | 0.36    | 0.00  | 744 | 1.00                         | 6.00    | 4.10    | 744 |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: MET 3

Period: 6/ 1/91 thru 6/30/91

Month and year of record: JUNE, 91

| WIND SPEED (MPH) |         |         |         |     | WIND DIRECTION (DEG) |         |         |     | SIGMA THETA (DEGREES) |         |         |     |
|------------------|---------|---------|---------|-----|----------------------|---------|---------|-----|-----------------------|---------|---------|-----|
| HR               | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM              | MAXIMUM | AVERAGE | OBS | MINIMUM               | MAXIMUM | AVERAGE | OBS |
| 1                | 0.62    | 11.61   | 5.32    | 30  | 1.14                 | 346.30  | 198.32  | 30  | 7.10                  | 37.56   | 15.94   | 30  |
| 2                | 0.45    | 10.95   | 4.80    | 30  | 24.18                | 347.40  | 190.22  | 30  | 6.07                  | 40.88   | 13.72   | 30  |
| 3                | 0.30    | 10.67   | 4.48    | 30  | 38.44                | 351.40  | 195.22  | 30  | 7.62                  | 32.84   | 14.99   | 30  |
| 4                | 0.50    | 7.94    | 4.48    | 30  | 31.33                | 336.10  | 202.62  | 30  | 5.63                  | 40.94   | 16.50   | 30  |
| 5                | 1.69    | 10.97   | 5.28    | 30  | 15.03                | 335.50  | 211.26  | 30  | 5.77                  | 42.92   | 16.90   | 30  |
| 6                | 1.13    | 13.93   | 5.85    | 30  | 70.80                | 348.80  | 210.85  | 30  | 5.17                  | 42.67   | 14.78   | 30  |
| 7                | 0.21    | 14.63   | 5.22    | 30  | 6.70                 | 349.80  | 225.02  | 30  | 5.33                  | 51.93   | 14.55   | 30  |
| 8                | 0.82    | 15.07   | 4.89    | 30  | 29.96                | 358.70  | 254.75  | 30  | 5.44                  | 51.31   | 19.27   | 30  |
| 9                | 0.54    | 15.00   | 4.84    | 30  | 41.13                | 358.20  | 209.50  | 30  | 6.15                  | 52.56   | 17.06   | 30  |
| 10               | 0.56    | 16.21   | 5.07    | 30  | 3.31                 | 348.20  | 127.82  | 30  | 6.15                  | 46.10   | 16.35   | 30  |
| 11               | 0.37    | 14.25   | 5.50    | 30  | 14.34                | 346.90  | 97.25   | 30  | 4.71                  | 46.09   | 14.44   | 30  |
| 12               | 0.84    | 14.17   | 5.75    | 30  | 13.25                | 311.70  | 111.40  | 30  | 5.61                  | 32.16   | 14.32   | 30  |
| 13               | 1.27    | 17.26   | 6.35    | 30  | 5.30                 | 359.70  | 103.38  | 30  | 6.31                  | 36.59   | 16.74   | 30  |
| 14               | 1.89    | 15.40   | 7.77    | 30  | 8.28                 | 359.60  | 104.08  | 30  | 8.98                  | 45.61   | 21.59   | 30  |
| 15               | 1.31    | 21.49   | 8.37    | 30  | 6.76                 | 351.40  | 96.49   | 30  | 10.91                 | 41.19   | 23.70   | 30  |
| 16               | 3.29    | 18.61   | 10.39   | 30  | 0.01                 | 359.20  | 46.97   | 30  | 10.97                 | 48.45   | 30.33   | 30  |
| 17               | 0.41    | 18.52   | 10.58   | 30  | 12.61                | 322.20  | 147.79  | 30  | 10.69                 | 52.64   | 30.29   | 30  |
| 18               | 2.14    | 20.94   | 9.53    | 30  | 19.60                | 327.40  | 167.98  | 30  | 14.37                 | 48.96   | 29.57   | 30  |
| 19               | 0.60    | 19.48   | 7.65    | 30  | 18.62                | 345.00  | 103.21  | 30  | 11.19                 | 53.29   | 29.84   | 30  |
| 20               | 1.69    | 19.43   | 7.62    | 30  | 6.75                 | 336.00  | 124.28  | 30  | 9.82                  | 52.11   | 26.74   | 30  |
| 21               | 1.12    | 13.76   | 6.66    | 30  | 6.45                 | 351.10  | 167.05  | 30  | 7.95                  | 62.82   | 25.21   | 30  |
| 22               | 0.86    | 14.51   | 5.87    | 30  | 1.05                 | 333.90  | 180.40  | 30  | 7.90                  | 52.01   | 19.51   | 30  |
| 23               | 0.85    | 15.47   | 5.34    | 30  | 4.54                 | 320.10  | 187.26  | 30  | 8.59                  | 46.75   | 18.77   | 30  |
| 24               | 0.55    | 13.90   | 5.69    | 30  | 99.20                | 333.20  | 196.42  | 30  | 7.83                  | 34.77   | 16.59   | 30  |
|                  | 0.21    | 21.49   | 6.39    | 720 | 0.01                 | 359.70  | 176.74  | 1   | 4.71                  | 62.82   | 19.90   | 720 |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: MET 3

Period: 6/ 1/91 thru 6/30/91

Month and year of record: JUNE, 91

| SOLAR RADIATION (LY/HR) |         |         |         |     | AIR TEMPERATURE (F) |         |         |     | MAXIMUM WIND SPEED (MPH) |         |         |     |
|-------------------------|---------|---------|---------|-----|---------------------|---------|---------|-----|--------------------------|---------|---------|-----|
| HR                      | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM             | MAXIMUM | AVERAGE | OBS | MINIMUM                  | MAXIMUM | AVERAGE | OBS |
| 1                       | -0.01   | 0.00    | -0.00   | 18  | 52.01               | 73.90   | 61.51   | 30  | 3.57                     | 24.04   | 9.88    | 30  |
| 2                       | -0.01   | 0.00    | -0.00   | 18  | 51.76               | 71.30   | 60.53   | 30  | 5.04                     | 19.60   | 9.40    | 30  |
| 3                       | -0.01   | 0.00    | -0.00   | 18  | 51.57               | 68.18   | 59.21   | 30  | 4.10                     | 16.71   | 8.99    | 30  |
| 4                       | -0.01   | 0.00    | -0.00   | 18  | 51.12               | 65.50   | 58.17   | 30  | 3.71                     | 18.72   | 9.28    | 30  |
| 5                       | 0.00    | 0.01    | 0.00    | 18  | 51.13               | 64.63   | 57.56   | 30  | 4.24                     | 18.41   | 9.96    | 30  |
| 6                       | 0.01    | 0.19    | 0.12    | 18  | 51.71               | 64.27   | 57.93   | 30  | 3.61                     | 23.38   | 10.40   | 30  |
| 7                       | 0.08    | 0.44    | 0.34    | 18  | 52.10               | 70.30   | 60.41   | 30  | 5.39                     | 22.90   | 10.40   | 30  |
| 8                       | 0.16    | 0.73    | 0.58    | 18  | 53.91               | 78.10   | 63.97   | 30  | 5.71                     | 24.30   | 9.80    | 30  |
| 9                       | 0.10    | 1.02    | 0.82    | 18  | 55.19               | 83.70   | 67.42   | 30  | 4.89                     | 23.87   | 10.47   | 30  |
| 10                      | 0.11    | 1.25    | 1.06    | 18  | 56.18               | 87.40   | 70.67   | 30  | 5.55                     | 28.42   | 12.17   | 30  |
| 11                      | 0.44    | 1.43    | 1.20    | 18  | 59.18               | 90.40   | 73.33   | 30  | 6.62                     | 23.72   | 13.15   | 30  |
| 12                      | 0.50    | 1.53    | 1.33    | 18  | 61.44               | 92.00   | 75.65   | 30  | 6.71                     | 25.00   | 13.92   | 30  |
| 13                      | 0.50    | 1.57    | 1.25    | 18  | 62.97               | 94.30   | 77.56   | 30  | 6.62                     | 26.32   | 15.67   | 30  |
| 14                      | 0.13    | 1.42    | 0.91    | 17  | 63.44               | 95.70   | 78.29   | 30  | 5.98                     | 33.03   | 19.52   | 30  |
| 15                      | 0.06    | 1.20    | 0.53    | 17  | 63.12               | 96.00   | 77.63   | 30  | 9.36                     | 46.04   | 21.63   | 30  |
| 16                      | 0.00    | 0.98    | 0.52    | 17  | 57.64               | 95.80   | 76.75   | 30  | 10.41                    | 34.55   | 20.92   | 30  |
| 17                      | 0.01    | 0.78    | 0.37    | 17  | 55.85               | 94.20   | 75.48   | 30  | 8.74                     | 37.64   | 21.62   | 30  |
| 18                      | 0.00    | 0.41    | 0.24    | 17  | 54.65               | 92.00   | 74.38   | 30  | 5.33                     | 32.80   | 18.52   | 30  |
| 19                      | 0.02    | 0.15    | 0.09    | 17  | 54.88               | 89.70   | 72.38   | 30  | 2.39                     | 40.02   | 15.89   | 30  |
| 20                      | 0.00    | 0.02    | 0.00    | 17  | 53.61               | 85.70   | 69.26   | 30  | 4.83                     | 34.05   | 15.00   | 30  |
| 21                      | -0.01   | 0.00    | -0.00   | 17  | 52.31               | 86.30   | 67.09   | 30  | 5.32                     | 27.61   | 14.63   | 30  |
| 22                      | -0.01   | 0.00    | -0.00   | 17  | 51.20               | 83.10   | 65.52   | 30  | 5.88                     | 25.98   | 12.67   | 30  |
| 23                      | -0.01   | 0.00    | -0.00   | 17  | 50.40               | 80.40   | 64.38   | 30  | 5.78                     | 26.52   | 11.65   | 30  |
| 24                      | -0.01   | 0.00    | -0.00   | 17  | 51.25               | 77.40   | 62.66   | 30  | 5.88                     | 22.03   | 10.49   | 30  |
|                         | -0.01   | 1.57    | 0.39    | 421 | 50.40               | 96.00   | 67.82   | 720 | 2.39                     | 46.04   | 13.58   | 720 |



WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: MET 3

Period: 6/ 1/91 thru 6/30/91

Month and year of record: JUNE, 91

| PRECIPITATION (IN) |         |         |       |     | P-G STABILITY CLASSIFICATION |         |         |     |
|--------------------|---------|---------|-------|-----|------------------------------|---------|---------|-----|
| HR                 | MINIMUM | MAXIMUM | TOTAL | OBS | MINIMUM                      | MAXIMUM | AVERAGE | OBS |
| 1                  | 0.00    | 0.00    | 0.00  | 30  | 1.00                         | 4.00    | 3.03    | 30  |
| 2                  | 0.00    | 0.01    | 0.01  | 30  | 1.00                         | 4.00    | 3.37    | 30  |
| 3                  | 0.00    | 0.00    | 0.00  | 30  | 1.00                         | 4.00    | 3.03    | 30  |
| 4                  | 0.00    | 0.01    | 0.01  | 30  | 1.00                         | 4.00    | 2.90    | 30  |
| 5                  | 0.00    | 0.01    | 0.01  | 30  | 1.00                         | 4.00    | 2.97    | 30  |
| 6                  | 0.00    | 0.01    | 0.02  | 30  | 1.00                         | 4.00    | 3.17    | 30  |
| 7                  | 0.00    | 0.00    | 0.00  | 30  | 1.00                         | 4.00    | 3.37    | 30  |
| 8                  | 0.00    | 0.00    | 0.00  | 30  | 4.00                         | 6.00    | 4.87    | 30  |
| 9                  | 0.00    | 0.00    | 0.00  | 30  | 4.00                         | 6.00    | 4.90    | 30  |
| 10                 | 0.00    | 0.00    | 0.00  | 30  | 4.00                         | 6.00    | 4.77    | 30  |
| 11                 | 0.00    | 0.01    | 0.01  | 30  | 4.00                         | 6.00    | 4.67    | 30  |
| 12                 | 0.00    | 0.00    | 0.00  | 30  | 4.00                         | 6.00    | 4.63    | 30  |
| 13                 | 0.00    | 0.00    | 0.00  | 30  | 4.00                         | 6.00    | 4.50    | 30  |
| 14                 | 0.00    | 0.02    | 0.02  | 30  | 4.00                         | 6.00    | 4.53    | 30  |
| 15                 | 0.00    | 0.02    | 0.04  | 30  | 4.00                         | 6.00    | 4.83    | 30  |
| 16                 | 0.00    | 0.67    | 0.97  | 30  | 4.00                         | 6.00    | 4.50    | 30  |
| 17                 | 0.00    | 0.40    | 0.79  | 30  | 4.00                         | 6.00    | 4.47    | 30  |
| 18                 | 0.00    | 0.04    | 0.07  | 30  | 4.00                         | 6.00    | 4.70    | 30  |
| 19                 | 0.00    | 0.07    | 0.08  | 30  | 4.00                         | 6.00    | 4.87    | 30  |
| 20                 | 0.00    | 0.21    | 0.30  | 30  | 4.00                         | 6.00    | 5.03    | 30  |
| 21                 | 0.00    | 0.23    | 0.32  | 30  | 4.00                         | 6.00    | 4.87    | 30  |
| 22                 | 0.00    | 0.03    | 0.05  | 30  | 4.00                         | 6.00    | 4.80    | 30  |
| 23                 | 0.00    | 0.12    | 0.12  | 30  | 4.00                         | 6.00    | 4.80    | 30  |
| 24                 | 0.00    | 0.01    | 0.01  | 30  | 4.00                         | 6.00    | 4.67    | 30  |
|                    | 0.00    | 0.67    | 0.00  | 720 | 1.00                         | 6.00    | 4.26    | 720 |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: MET 3

Period: 7/ 1/91 thru 7/31/91

Month and year of record: JULY, 91

| WIND SPEED (MPH) |         |         |         |     | WIND DIRECTION (DEG) |         |         |     | SIGMA THETA (DEGREES) |         |         |     |
|------------------|---------|---------|---------|-----|----------------------|---------|---------|-----|-----------------------|---------|---------|-----|
| HR               | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM              | MAXIMUM | AVERAGE | OBS | MINIMUM               | MAXIMUM | AVERAGE | OBS |
| 1                | 2.15    | 12.09   | 5.73    | 28  | 29.84                | 353.70  | 190.62  | 28  | 4.83                  | 38.48   | 12.61   | 28  |
| 2                | 0.53    | 10.30   | 5.65    | 28  | 1.58                 | 359.80  | 197.50  | 28  | 5.36                  | 39.71   | 12.85   | 28  |
| 3                | 2.13    | 10.74   | 5.81    | 28  | 10.02                | 349.60  | 195.10  | 28  | 4.73                  | 29.42   | 12.58   | 28  |
| 4                | 1.50    | 10.84   | 5.54    | 28  | 4.40                 | 345.90  | 207.42  | 28  | 4.63                  | 35.18   | 13.06   | 28  |
| 5                | 1.56    | 11.04   | 5.42    | 28  | 55.86                | 328.30  | 211.23  | 28  | 4.55                  | 45.65   | 13.73   | 28  |
| 6                | 2.02    | 9.60    | 5.30    | 27  | 3.07                 | 301.10  | 218.94  | 27  | 5.11                  | 51.54   | 14.02   | 28  |
| 7                | 1.97    | 9.11    | 5.37    | 25  | 5.31                 | 325.90  | 218.51  | 25  | 4.83                  | 28.42   | 12.47   | 28  |
| 8                | 0.15    | 10.37   | 5.12    | 27  | 41.48                | 339.00  | 238.39  | 27  | 5.74                  | 39.32   | 13.37   | 28  |
| 9                | 1.47    | 19.28   | 5.19    | 28  | 18.04                | 359.40  | 234.20  | 28  | 5.57                  | 37.14   | 15.00   | 28  |
| 10               | 1.59    | 15.84   | 5.04    | 27  | 10.56                | 346.10  | 198.09  | 27  | 4.70                  | 43.19   | 14.54   | 28  |
| 11               | 0.62    | 14.40   | 5.28    | 28  | 15.99                | 349.80  | 61.08   | 28  | 4.44                  | 48.03   | 16.81   | 28  |
| 12               | 2.00    | 13.19   | 5.78    | 28  | 20.20                | 347.50  | 66.12   | 28  | 4.00                  | 499.01  | 31.94   | 28  |
| 13               | 0.32    | 10.65   | 6.26    | 28  | 4.73                 | 357.40  | 54.45   | 28  | 6.16                  | 705.90  | 41.63   | 27  |
| 14               | 1.90    | 13.65   | 7.34    | 28  | 6.44                 | 355.10  | 52.54   | 28  | 7.67                  | 499.12  | 35.91   | 27  |
| 15               | 1.87    | 16.74   | 7.04    | 28  | 6.48                 | 359.50  | 23.73   | 28  | 8.25                  | 705.84  | 47.45   | 28  |
| 16               | 3.31    | 18.34   | 8.73    | 28  | 5.02                 | 358.90  | 21.83   | 28  | 10.70                 | 81.63   | 26.22   | 28  |
| 17               | 3.31    | 19.79   | 8.92    | 29  | 2.34                 | 349.80  | 40.34   | 29  | 10.28                 | 60.93   | 25.86   | 29  |
| 18               | 3.31    | 19.61   | 8.05    | 29  | 5.91                 | 354.70  | 61.75   | 29  | 8.93                  | 48.65   | 25.29   | 29  |
| 19               | 2.53    | 16.72   | 8.05    | 29  | 5.01                 | 359.00  | 20.55   | 29  | 7.38                  | 47.89   | 25.68   | 29  |
| 20               | 0.75    | 11.91   | 6.17    | 29  | 0.63                 | 285.90  | 96.93   | 29  | 4.17                  | 54.83   | 23.90   | 29  |
| 21               | 2.06    | 10.08   | 5.86    | 29  | 0.51                 | 312.50  | 161.02  | 29  | 5.61                  | 50.91   | 22.80   | 29  |
| 22               | 1.29    | 13.44   | 6.52    | 29  | 45.55                | 340.30  | 182.26  | 29  | 6.60                  | 3499.60 | 139.70  | 29  |
| 23               | 0.94    | 13.92   | 6.50    | 29  | 81.00                | 359.70  | 201.67  | 29  | 7.44                  | 37.44   | 17.32   | 29  |
| 24               | 0.87    | 11.34   | 6.03    | 29  | 9.42                 | 338.60  | 201.24  | 29  | 6.61                  | 46.46   | 14.92   | 29  |
|                  | 0.15    | 19.79   | 6.30    | 674 | 0.51                 | 359.80  | 188.19  | 1   | 4.00                  | 3499.60 | 26.32   | 678 |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: MET 3

Period: 7/ 1/91 thru 7/31/91

Month and year of record: JULY, 91

| SOLAR RADIATION (LY/HR) |         |         |         |     | AIR TEMPERATURE (F) |         |         |     | MAXIMUM WIND SPEED (MPH) |         |         |     |
|-------------------------|---------|---------|---------|-----|---------------------|---------|---------|-----|--------------------------|---------|---------|-----|
| HR                      | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM             | MAXIMUM | AVERAGE | OBS | MINIMUM                  | MAXIMUM | AVERAGE | OBS |
| 1                       | -0.01   | 0.00    | -0.01   | 27  | 57.61               | 71.30   | 66.03   | 28  | 5.18                     | 18.89   | 9.77    | 28  |
| 2                       | -0.01   | 0.00    | -0.01   | 27  | 56.25               | 70.60   | 64.65   | 28  | 4.07                     | 17.60   | 9.72    | 28  |
| 3                       | -0.01   | 0.00    | -0.01   | 27  | 56.22               | 70.00   | 63.41   | 28  | 4.14                     | 16.66   | 9.34    | 28  |
| 4                       | -0.01   | 0.00    | -0.01   | 27  | 56.38               | 69.32   | 62.75   | 28  | 2.44                     | 15.30   | 9.18    | 28  |
| 5                       | -0.01   | 0.01    | -0.00   | 27  | 54.86               | 68.90   | 61.95   | 28  | 5.23                     | 16.08   | 8.90    | 28  |
| 6                       | 0.01    | 0.18    | 0.11    | 27  | 55.92               | 69.95   | 62.12   | 27  | 5.14                     | 14.86   | 9.01    | 27  |
| 7                       | 0.04    | 0.43    | 0.33    | 27  | 55.50               | 72.30   | 64.75   | 25  | 5.00                     | 15.09   | 9.39    | 25  |
| 8                       | 0.14    | 0.73    | 0.58    | 27  | 55.81               | 77.50   | 68.58   | 27  | 6.37                     | 19.55   | 9.99    | 27  |
| 9                       | 0.20    | 1.04    | 0.84    | 27  | 56.68               | 82.30   | 72.19   | 28  | 5.56                     | 28.44   | 10.45   | 28  |
| 10                      | 0.16    | 1.28    | 1.11    | 27  | 56.20               | 87.70   | 75.57   | 28  | 5.88                     | 27.63   | 11.12   | 27  |
| 11                      | 0.18    | 1.52    | 1.31    | 27  | 56.15               | 90.10   | 78.33   | 28  | 6.03                     | 24.83   | 12.95   | 28  |
| 12                      | 0.50    | 1.59    | 1.39    | 27  | 57.20               | 92.30   | 80.49   | 28  | 9.02                     | 23.79   | 14.31   | 28  |
| 13                      | 0.27    | 1.59    | 1.24    | 27  | 58.62               | 92.10   | 81.73   | 28  | 8.87                     | 37.14   | 16.47   | 28  |
| 14                      | 0.19    | 1.51    | 1.15    | 28  | 58.72               | 92.20   | 82.67   | 28  | 9.35                     | 32.79   | 18.42   | 28  |
| 15                      | 0.07    | 1.32    | 0.89    | 28  | 60.16               | 92.70   | 82.70   | 28  | 11.05                    | 37.19   | 18.17   | 28  |
| 16                      | 0.01    | 1.08    | 0.64    | 28  | 59.79               | 92.90   | 81.00   | 28  | 9.02                     | 52.12   | 20.05   | 28  |
| 17                      | 0.02    | 0.76    | 0.45    | 29  | 59.88               | 91.70   | 79.41   | 29  | 8.70                     | 31.98   | 17.98   | 29  |
| 18                      | 0.01    | 0.44    | 0.24    | 29  | 59.24               | 92.00   | 77.94   | 29  | 8.17                     | 33.13   | 16.22   | 29  |
| 19                      | 0.00    | 0.18    | 0.08    | 29  | 58.36               | 89.40   | 74.96   | 29  | 3.96                     | 27.00   | 14.17   | 29  |
| 20                      | -0.01   | 0.01    | -0.00   | 29  | 58.69               | 84.50   | 72.96   | 29  | 4.70                     | 20.97   | 12.11   | 29  |
| 21                      | -0.01   | 0.00    | -0.01   | 29  | 57.27               | 80.60   | 71.08   | 29  | 6.59                     | 23.18   | 11.54   | 29  |
| 22                      | -0.01   | 0.00    | -0.01   | 29  | 56.99               | 76.90   | 69.64   | 29  | 4.26                     | 34.05   | 12.11   | 29  |
| 23                      | -0.01   | 0.00    | -0.01   | 29  | 56.37               | 77.70   | 68.40   | 29  | 5.47                     | 22.21   | 11.69   | 29  |
| 24                      | -0.01   | 0.00    | -0.01   | 29  | 56.47               | 74.30   | 67.19   | 29  | 4.48                     | 19.53   | 10.98   | 29  |
|                         | -0.01   | 1.59    | 0.42    | 667 | 54.86               | 92.90   | 72.16   | 675 | 2.44                     | 52.12   | 12.70   | 674 |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: MET 3

Period: 7/ 1/91 thru 7/31/91

Month and year of record: JULY, 91

| PRECIPITATION (IN) |         |         |       |     | P-G STABILITY CLASSIFICATION |         |         |     |
|--------------------|---------|---------|-------|-----|------------------------------|---------|---------|-----|
| HR                 | MINIMUM | MAXIMUM | TOTAL | OBS | MINIMUM                      | MAXIMUM | AVERAGE | OBS |
| 1                  | 0.00    | 0.01    | 0.01  | 28  | 1.00                         | 4.00    | 3.43    | 28  |
| 2                  | 0.00    | 0.04    | 0.04  | 28  | 1.00                         | 5.00    | 3.43    | 28  |
| 3                  | 0.00    | 0.01    | 0.01  | 28  | 1.00                         | 4.00    | 3.43    | 28  |
| 4                  | 0.00    | 0.01    | 0.01  | 28  | 1.00                         | 4.00    | 3.32    | 28  |
| 5                  | 0.00    | 0.01    | 0.01  | 28  | 1.00                         | 4.00    | 3.25    | 28  |
| 6                  | 0.00    | 0.02    | 0.02  | 28  | 1.00                         | 4.00    | 3.26    | 27  |
| 7                  | 0.00    | 0.02    | 0.02  | 28  | 1.00                         | 4.00    | 3.40    | 25  |
| 8                  | 0.00    | 0.00    | 0.00  | 28  | 4.00                         | 6.00    | 4.41    | 27  |
| 9                  | 0.00    | 0.00    | 0.00  | 28  | 4.00                         | 6.00    | 4.71    | 28  |
| 10                 | 0.00    | 0.00    | 0.00  | 28  | 4.00                         | 6.00    | 4.74    | 27  |
| 11                 | 0.00    | 0.00    | 0.00  | 28  | 4.00                         | 6.00    | 4.82    | 28  |
| 12                 | 0.00    | 0.00    | 0.00  | 28  | 4.00                         | 6.00    | 4.75    | 28  |
| 13                 | 0.00    | 0.11    | 0.11  | 28  | 4.00                         | 6.00    | 4.44    | 27  |
| 14                 | 0.00    | 0.02    | 0.02  | 28  | 4.00                         | 6.00    | 4.56    | 27  |
| 15                 | 0.00    | 0.07    | 0.07  | 28  | 4.00                         | 6.00    | 4.79    | 28  |
| 16                 | 0.00    | 0.90    | 0.98  | 28  | 4.00                         | 6.00    | 4.61    | 28  |
| 17                 | 0.00    | 0.12    | 0.16  | 29  | 4.00                         | 6.00    | 4.62    | 29  |
| 18                 | 0.00    | 0.11    | 0.17  | 29  | 4.00                         | 6.00    | 4.62    | 29  |
| 19                 | 0.00    | 0.14    | 0.30  | 29  | 4.00                         | 6.00    | 4.79    | 29  |
| 20                 | 0.00    | 0.10    | 0.17  | 29  | 4.00                         | 6.00    | 5.03    | 29  |
| 21                 | 0.00    | 0.06    | 0.06  | 29  | 4.00                         | 6.00    | 5.14    | 29  |
| 22                 | 0.00    | 0.02    | 0.04  | 29  | 4.00                         | 6.00    | 4.82    | 28  |
| 23                 | 0.00    | 0.01    | 0.01  | 29  | 4.00                         | 6.00    | 4.69    | 29  |
| 24                 | 0.00    | 0.04    | 0.04  | 29  | 4.00                         | 6.00    | 4.52    | 29  |
|                    | 0.00    | 0.90    | 0.00  | 680 | 1.00                         | 6.00    | 4.32    | 671 |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: MET 3

Period: 8/ 1/91 thru 8/31/91

Month and year of record: AUGUST, 91

| WIND SPEED (MPH) |         |         |         |     | WIND DIRECTION (DEG) |         |         |     | SIGMA THETA (DEGREES) |         |         |     |
|------------------|---------|---------|---------|-----|----------------------|---------|---------|-----|-----------------------|---------|---------|-----|
| HR               | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM              | MAXIMUM | AVERAGE | OBS | MINIMUM               | MAXIMUM | AVERAGE | OBS |
| 1                | 2.06    | 9.20    | 5.71    | 31  | 159.70               | 325.80  | 200.53  | 31  | 4.73                  | 29.86   | 11.23   | 31  |
| 2                | 1.43    | 9.13    | 5.44    | 31  | 103.50               | 345.70  | 202.05  | 31  | 4.52                  | 35.97   | 12.52   | 31  |
| 3                | 2.68    | 10.12   | 5.43    | 31  | 13.84                | 290.80  | 193.79  | 31  | 3.99                  | 22.31   | 10.17   | 31  |
| 4                | 2.44    | 7.99    | 5.51    | 31  | 112.50               | 341.90  | 206.30  | 31  | 4.43                  | 17.90   | 9.12    | 31  |
| 5                | 2.41    | 8.48    | 5.50    | 31  | 25.35                | 347.00  | 211.46  | 31  | 4.52                  | 25.28   | 9.20    | 31  |
| 6                | 1.23    | 8.59    | 4.92    | 31  | 158.60               | 326.90  | 212.03  | 31  | 3.01                  | 33.59   | 10.65   | 31  |
| 7                | 2.00    | 7.65    | 4.87    | 31  | 57.70                | 348.10  | 215.04  | 31  | 6.13                  | 29.69   | 11.76   | 31  |
| 8                | 0.96    | 7.63    | 5.03    | 31  | 4.31                 | 344.20  | 228.16  | 31  | 7.30                  | 31.73   | 14.11   | 31  |
| 9                | 0.93    | 10.25   | 4.18    | 31  | 0.83                 | 342.20  | 270.97  | 31  | 9.03                  | 48.44   | 21.92   | 31  |
| 10               | 0.90    | 11.34   | 4.11    | 31  | 0.26                 | 358.40  | 3.37    | 31  | 8.54                  | 47.29   | 26.86   | 31  |
| 11               | 0.74    | 10.24   | 4.57    | 31  | 4.83                 | 358.40  | 48.62   | 31  | 8.68                  | 55.24   | 29.29   | 31  |
| 12               | 1.41    | 9.38    | 4.80    | 31  | 6.25                 | 261.30  | 46.91   | 31  | 11.80                 | 54.64   | 29.60   | 31  |
| 13               | 1.95    | 11.42   | 5.51    | 31  | 7.34                 | 324.50  | 49.79   | 31  | 9.99                  | 41.84   | 27.00   | 31  |
| 14               | 1.85    | 11.07   | 5.71    | 31  | 2.58                 | 359.40  | 49.36   | 31  | 13.89                 | 52.54   | 28.16   | 31  |
| 15               | 1.83    | 11.01   | 5.59    | 31  | 0.91                 | 353.70  | 32.39   | 31  | 9.71                  | 54.21   | 25.10   | 31  |
| 16               | 2.50    | 14.41   | 6.45    | 31  | 0.92                 | 359.50  | 12.12   | 31  | 9.06                  | 43.05   | 22.27   | 31  |
| 17               | 1.47    | 13.35   | 7.12    | 31  | 4.88                 | 347.10  | 356.14  | 31  | 8.28                  | 45.17   | 18.73   | 31  |
| 18               | 1.11    | 13.21   | 6.50    | 31  | 1.25                 | 347.10  | 317.76  | 31  | 6.86                  | 40.85   | 14.62   | 31  |
| 19               | 3.11    | 14.34   | 6.46    | 31  | 0.62                 | 319.10  | 169.32  | 31  | 4.97                  | 29.62   | 12.61   | 31  |
| 20               | 0.70    | 10.68   | 5.23    | 31  | 28.45                | 346.40  | 189.78  | 31  | 6.00                  | 4949.20 | 173.81  | 31  |
| 21               | 1.64    | 11.29   | 5.93    | 30  | 0.85                 | 328.00  | 174.67  | 30  | 5.09                  | 33.15   | 13.35   | 30  |
| 22               | 0.81    | 11.63   | 6.05    | 30  | 46.01                | 359.20  | 189.27  | 30  | 5.32                  | 27.38   | 11.46   | 30  |
| 23               | 2.01    | 11.51   | 5.80    | 31  | 41.26                | 339.70  | 192.04  | 31  | 5.10                  | 3499.50 | 125.82  | 31  |
| 24               | 1.52    | 12.72   | 5.65    | 31  | 121.70               | 347.60  | 193.76  | 31  | 4.72                  | 37.10   | 11.94   | 31  |
|                  | 0.70    | 14.41   | 5.50    | 742 | 0.26                 | 359.50  | 197.61  | 1   | 3.01                  | 4949.20 | 28.43   | 742 |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: MET 3

Period: 8/ 1/91 thru 8/31/91

Month and year of record: AUGUST, 91

| SOLAR RADIATION (LY/HR) |         |         |         |     | AIR TEMPERATURE (F) |         |         |     | MAXIMUM WIND SPEED (MPH) |         |         |     |
|-------------------------|---------|---------|---------|-----|---------------------|---------|---------|-----|--------------------------|---------|---------|-----|
| HR                      | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM             | MAXIMUM | AVERAGE | OBS | MINIMUM                  | MAXIMUM | AVERAGE | OBS |
| 1                       | -0.01   | 0.00    | -0.01   | 31  | 59.01               | 72.60   | 64.24   | 31  | 4.80                     | 14.72   | 9.39    | 31  |
| 2                       | -0.01   | 0.00    | -0.01   | 31  | 58.72               | 70.90   | 63.29   | 31  | 4.44                     | 16.55   | 9.23    | 31  |
| 3                       | -0.01   | 0.00    | -0.01   | 31  | 56.76               | 70.10   | 62.31   | 31  | 5.32                     | 14.71   | 9.04    | 31  |
| 4                       | -0.01   | 0.00    | -0.01   | 31  | 56.49               | 69.68   | 61.71   | 31  | 4.26                     | 13.94   | 8.93    | 31  |
| 5                       | -0.01   | 0.00    | -0.01   | 31  | 55.86               | 68.52   | 60.90   | 31  | 4.22                     | 12.77   | 8.39    | 31  |
| 6                       | 0.01    | 0.06    | 0.03    | 31  | 55.05               | 68.09   | 60.40   | 31  | 3.05                     | 14.17   | 7.95    | 31  |
| 7                       | 0.02    | 0.31    | 0.21    | 31  | 56.73               | 68.70   | 61.90   | 31  | 4.33                     | 12.69   | 8.58    | 31  |
| 8                       | 0.02    | 0.61    | 0.49    | 31  | 58.31               | 73.90   | 65.62   | 31  | 5.10                     | 18.25   | 8.92    | 31  |
| 9                       | 0.07    | 0.92    | 0.77    | 31  | 59.18               | 78.10   | 69.56   | 31  | 4.36                     | 20.25   | 8.58    | 31  |
| 10                      | 0.28    | 1.18    | 0.97    | 31  | 59.49               | 81.80   | 72.90   | 31  | 4.30                     | 17.55   | 8.98    | 31  |
| 11                      | 0.26    | 1.37    | 1.15    | 31  | 59.39               | 85.70   | 75.41   | 31  | 6.56                     | 16.84   | 10.27   | 31  |
| 12                      | 0.15    | 1.48    | 1.26    | 31  | 58.85               | 87.50   | 77.56   | 31  | 6.93                     | 19.27   | 12.04   | 31  |
| 13                      | 0.13    | 1.49    | 1.18    | 31  | 57.23               | 88.60   | 79.15   | 31  | 8.92                     | 22.69   | 13.17   | 31  |
| 14                      | 0.14    | 1.44    | 1.04    | 31  | 56.98               | 88.90   | 79.93   | 31  | 7.90                     | 37.62   | 14.30   | 31  |
| 15                      | 0.03    | 1.21    | 0.77    | 31  | 57.50               | 89.90   | 80.08   | 31  | 8.78                     | 39.68   | 15.20   | 31  |
| 16                      | 0.02    | 0.93    | 0.49    | 31  | 58.26               | 89.30   | 78.78   | 31  | 7.13                     | 35.44   | 15.24   | 31  |
| 17                      | 0.04    | 0.75    | 0.31    | 31  | 59.40               | 87.90   | 77.19   | 31  | 3.84                     | 29.90   | 14.69   | 31  |
| 18                      | 0.01    | 0.41    | 0.15    | 31  | 60.17               | 83.50   | 75.48   | 31  | 5.57                     | 23.87   | 13.80   | 31  |
| 19                      | 0.00    | 0.11    | 0.03    | 31  | 60.05               | 79.80   | 72.96   | 31  | 4.97                     | 39.19   | 13.11   | 31  |
| 20                      | -0.01   | 0.00    | -0.01   | 31  | 59.82               | 78.80   | 70.45   | 31  | 4.52                     | 30.41   | 11.73   | 31  |
| 21                      | -0.01   | 0.00    | -0.01   | 31  | 60.00               | 77.30   | 68.48   | 31  | 4.33                     | 20.87   | 11.06   | 30  |
| 22                      | -0.01   | 0.00    | -0.01   | 31  | 60.11               | 76.70   | 67.25   | 31  | 5.01                     | 19.90   | 10.88   | 30  |
| 23                      | -0.01   | 0.00    | -0.01   | 31  | 59.58               | 72.90   | 66.08   | 31  | 4.42                     | 19.28   | 10.03   | 31  |
| 24                      | -0.01   | 0.00    | -0.01   | 31  | 59.17               | 71.50   | 64.94   | 31  | 5.07                     | 19.26   | 9.74    | 31  |
|                         | -0.01   | 1.49    | 0.37    | 744 | 55.05               | 89.90   | 69.86   | 744 | 3.05                     | 39.68   | 10.97   | 742 |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: MET 3

Period: 8/ 1/91 thru 8/31/91

Month and year of record: AUGUST, 91

| PRECIPITATION (IN) |         |         |       |     | P-G STABILITY CLASSIFICATION |         |         |     |
|--------------------|---------|---------|-------|-----|------------------------------|---------|---------|-----|
| HR                 | MINIMUM | MAXIMUM | TOTAL | OBS | MINIMUM                      | MAXIMUM | AVERAGE | OBS |
| 1                  | 0.00    | 0.01    | 0.01  | 31  | 1.00                         | 4.00    | 3.52    | 31  |
| 2                  | 0.00    | 0.03    | 0.03  | 31  | 1.00                         | 4.00    | 3.29    | 31  |
| 3                  | 0.00    | 0.00    | 0.00  | 31  | 2.00                         | 4.00    | 3.71    | 31  |
| 4                  | 0.00    | 0.00    | 0.00  | 31  | 2.00                         | 4.00    | 3.68    | 31  |
| 5                  | 0.00    | 0.03    | 0.03  | 31  | 1.00                         | 4.00    | 3.71    | 31  |
| 6                  | 0.00    | 0.18    | 0.18  | 31  | 1.00                         | 4.00    | 3.52    | 31  |
| 7                  | 0.00    | 0.16    | 0.16  | 31  | 1.00                         | 4.00    | 3.52    | 31  |
| 8                  | 0.00    | 0.68    | 0.68  | 31  | 4.00                         | 6.00    | 4.71    | 31  |
| 9                  | 0.00    | 0.25    | 0.25  | 31  | 4.00                         | 6.00    | 5.48    | 31  |
| 10                 | 0.00    | 0.03    | 0.03  | 31  | 4.00                         | 6.00    | 5.61    | 31  |
| 11                 | 0.00    | 0.01    | 0.01  | 31  | 4.00                         | 6.00    | 5.45    | 31  |
| 12                 | 0.00    | 0.02    | 0.02  | 31  | 4.00                         | 6.00    | 5.52    | 31  |
| 13                 | 0.00    | 0.02    | 0.02  | 31  | 4.00                         | 6.00    | 5.45    | 31  |
| 14                 | 0.00    | 0.00    | 0.00  | 31  | 4.00                         | 6.00    | 5.23    | 31  |
| 15                 | 0.00    | 0.31    | 0.31  | 31  | 4.00                         | 6.00    | 5.19    | 31  |
| 16                 | 0.00    | 0.05    | 0.06  | 31  | 4.00                         | 6.00    | 4.97    | 31  |
| 17                 | 0.00    | 0.02    | 0.02  | 31  | 4.00                         | 6.00    | 4.68    | 31  |
| 18                 | 0.00    | 1.03    | 1.05  | 31  | 4.00                         | 6.00    | 4.65    | 31  |
| 19                 | 0.00    | 0.65    | 1.08  | 31  | 4.00                         | 6.00    | 4.55    | 31  |
| 20                 | 0.00    | 0.57    | 0.68  | 31  | 4.00                         | 6.00    | 4.73    | 30  |
| 21                 | 0.00    | 0.02    | 0.03  | 31  | 4.00                         | 6.00    | 4.67    | 30  |
| 22                 | 0.00    | 0.01    | 0.01  | 31  | 4.00                         | 6.00    | 4.63    | 30  |
| 23                 | 0.00    | 0.01    | 0.01  | 31  | 4.00                         | 6.00    | 4.63    | 30  |
| 24                 | 0.00    | 0.00    | 0.00  | 31  | 4.00                         | 6.00    | 4.58    | 31  |
|                    | 0.00    | 1.03    | 0.01  | 744 | 1.00                         | 6.00    | 4.57    | 740 |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: MET 3

Period: 9/ 1/91 thru 9/30/91

Month and year of record: SEPTEMBER, 91

| WIND SPEED (MPH) |         |         |         |     | WIND DIRECTION (DEG) |         |         |     | SIGMA THETA (DEGREES) |         |         |     |
|------------------|---------|---------|---------|-----|----------------------|---------|---------|-----|-----------------------|---------|---------|-----|
| HR               | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM              | MAXIMUM | AVERAGE | OBS | MINIMUM               | MAXIMUM | AVERAGE | OBS |
| 1                | 1.80    | 13.14   | 5.93    | 30  | 8.69                 | 323.40  | 192.90  | 30  | 4.01                  | 38.96   | 11.14   | 30  |
| 2                | 0.70    | 12.72   | 5.68    | 30  | 38.78                | 356.30  | 194.89  | 30  | 4.76                  | 33.47   | 10.52   | 30  |
| 3                | 1.72    | 11.36   | 5.47    | 30  | 48.55                | 311.50  | 199.54  | 30  | 4.49                  | 25.22   | 10.28   | 30  |
| 4                | 0.64    | 13.55   | 4.88    | 30  | 70.30                | 279.90  | 202.35  | 30  | 0.26                  | 45.92   | 13.71   | 30  |
| 5                | 1.27    | 13.39   | 4.74    | 30  | 21.37                | 343.60  | 187.69  | 30  | 3.87                  | 39.42   | 12.12   | 30  |
| 6                | 1.50    | 9.01    | 5.18    | 30  | 33.19                | 348.50  | 191.21  | 30  | 3.33                  | 24.41   | 9.53    | 30  |
| 7                | 2.15    | 9.92    | 5.36    | 30  | 58.89                | 349.60  | 198.91  | 30  | 3.77                  | 50.59   | 13.22   | 30  |
| 8                | 1.47    | 10.60   | 5.40    | 30  | 37.17                | 358.80  | 221.42  | 30  | 5.46                  | 46.59   | 15.16   | 30  |
| 9                | 1.91    | 10.70   | 5.53    | 30  | 18.10                | 354.50  | 248.10  | 30  | 9.01                  | 32.48   | 17.59   | 30  |
| 10               | 1.50    | 15.08   | 4.92    | 30  | 1.37                 | 360.00  | 308.39  | 30  | 7.36                  | 41.57   | 25.46   | 30  |
| 11               | 0.83    | 12.90   | 4.41    | 30  | 14.09                | 359.50  | 38.95   | 30  | 7.68                  | 55.28   | 32.10   | 30  |
| 12               | 0.72    | 12.30   | 4.80    | 30  | 8.36                 | 358.20  | 56.18   | 30  | 10.11                 | 53.09   | 32.06   | 30  |
| 13               | 0.96    | 14.85   | 4.95    | 30  | 0.14                 | 349.30  | 53.35   | 30  | 13.09                 | 53.97   | 33.02   | 30  |
| 14               | 1.39    | 15.51   | 6.15    | 30  | 0.17                 | 351.50  | 29.34   | 30  | 11.40                 | 57.27   | 28.76   | 30  |
| 15               | 0.67    | 20.47   | 7.26    | 30  | 4.61                 | 353.40  | 19.31   | 30  | 9.30                  | 46.90   | 25.88   | 30  |
| 16               | 0.93    | 24.74   | 8.60    | 30  | 0.95                 | 354.30  | 29.14   | 30  | 7.98                  | 51.87   | 22.10   | 30  |
| 17               | 0.82    | 20.67   | 8.48    | 30  | 1.55                 | 358.60  | 26.28   | 30  | 8.32                  | 38.59   | 17.85   | 30  |
| 18               | 2.55    | 18.10   | 8.55    | 30  | 12.68                | 351.20  | 31.57   | 30  | 5.86                  | 24.15   | 11.39   | 30  |
| 19               | 1.54    | 14.47   | 7.02    | 30  | 15.22                | 349.90  | 302.09  | 30  | 4.25                  | 28.31   | 11.78   | 30  |
| 20               | 1.23    | 12.72   | 6.27    | 30  | 11.92                | 358.00  | 156.37  | 30  | 3.94                  | 39.73   | 14.37   | 30  |
| 21               | 1.41    | 13.75   | 6.27    | 30  | 17.60                | 353.30  | 186.64  | 30  | 4.06                  | 21.53   | 11.09   | 30  |
| 22               | 0.81    | 13.81   | 5.95    | 30  | 15.34                | 292.50  | 188.61  | 30  | 3.38                  | 38.80   | 12.12   | 30  |
| 23               | 1.74    | 12.12   | 6.05    | 30  | 35.82                | 326.90  | 187.01  | 30  | 4.59                  | 39.72   | 11.04   | 30  |
| 24               | 2.26    | 10.72   | 6.15    | 30  | 57.61                | 355.90  | 186.10  | 30  | 3.55                  | 38.16   | 10.66   | 30  |
|                  | 0.64    | 24.74   | 6.00    | 720 | 0.14                 | 360.00  | 190.62  | 1   | 0.26                  | 57.27   | 17.21   | 720 |



WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: MET 3

Period: 9/ 1/91 thru 9/30/91

Month and year of record: SEPTEMBER, 91

| SOLAR RADIATION (LY/HR) |         |         |         |     | AIR TEMPERATURE (F) |         |         |     | MAXIMUM WIND SPEED (MPH) |         |         |     |
|-------------------------|---------|---------|---------|-----|---------------------|---------|---------|-----|--------------------------|---------|---------|-----|
| HR                      | MINIMUM | MAXIMUM | AVERAGE | OBS | MINIMUM             | MAXIMUM | AVERAGE | OBS | MINIMUM                  | MAXIMUM | AVERAGE | OBS |
| 1                       | -0.01   | 0.00    | -0.01   | 30  | 41.09               | 66.38   | 55.60   | 30  | 4.91                     | 20.84   | 9.77    | 30  |
| 2                       | -0.01   | 0.00    | -0.01   | 30  | 40.21               | 64.79   | 54.72   | 30  | 5.84                     | 20.22   | 9.48    | 30  |
| 3                       | -0.01   | 0.00    | -0.01   | 30  | 39.20               | 64.49   | 53.86   | 30  | 3.67                     | 22.06   | 8.82    | 30  |
| 4                       | -0.01   | 0.00    | -0.01   | 30  | 38.86               | 64.29   | 52.92   | 30  | 1.56                     | 23.69   | 8.29    | 30  |
| 5                       | -0.01   | 0.00    | -0.01   | 30  | 38.50               | 63.04   | 51.73   | 30  | 3.30                     | 23.64   | 8.25    | 30  |
| 6                       | 0.00    | 0.02    | 0.00    | 30  | 38.06               | 61.53   | 51.23   | 30  | 4.20                     | 16.48   | 8.25    | 30  |
| 7                       | 0.02    | 0.23    | 0.14    | 30  | 38.40               | 63.34   | 52.08   | 30  | 4.57                     | 17.59   | 9.10    | 30  |
| 8                       | 0.05    | 0.56    | 0.39    | 30  | 40.58               | 67.16   | 56.00   | 30  | 4.51                     | 16.77   | 9.92    | 30  |
| 9                       | 0.05    | 0.81    | 0.65    | 30  | 42.07               | 71.70   | 59.88   | 30  | 4.89                     | 24.77   | 10.40   | 30  |
| 10                      | 0.11    | 1.07    | 0.87    | 30  | 44.12               | 75.90   | 63.36   | 30  | 5.88                     | 24.38   | 10.61   | 30  |
| 11                      | 0.21    | 1.25    | 1.07    | 30  | 45.92               | 79.00   | 66.43   | 30  | 6.43                     | 21.75   | 11.07   | 30  |
| 12                      | 0.21    | 1.34    | 1.13    | 30  | 47.85               | 80.70   | 69.00   | 30  | 6.18                     | 23.49   | 12.57   | 30  |
| 13                      | 0.13    | 1.34    | 1.07    | 30  | 48.86               | 81.20   | 70.90   | 30  | 6.08                     | 28.34   | 13.46   | 30  |
| 14                      | 0.24    | 1.24    | 0.95    | 30  | 49.16               | 82.50   | 72.23   | 30  | 5.71                     | 25.56   | 14.64   | 30  |
| 15                      | 0.17    | 1.05    | 0.74    | 30  | 50.22               | 83.80   | 72.53   | 30  | 6.70                     | 31.92   | 16.40   | 30  |
| 16                      | 0.08    | 0.78    | 0.47    | 30  | 51.07               | 83.40   | 71.72   | 30  | 6.73                     | 38.51   | 17.32   | 30  |
| 17                      | 0.07    | 0.47    | 0.24    | 30  | 50.78               | 82.90   | 70.54   | 30  | 5.30                     | 33.53   | 16.98   | 30  |
| 18                      | 0.01    | 0.20    | 0.06    | 30  | 50.10               | 80.50   | 67.51   | 30  | 4.62                     | 31.93   | 14.90   | 30  |
| 19                      | -0.01   | 0.00    | -0.00   | 30  | 48.29               | 76.50   | 64.75   | 30  | 4.30                     | 23.19   | 12.53   | 30  |
| 20                      | -0.01   | 0.00    | -0.01   | 30  | 47.14               | 73.30   | 62.22   | 30  | 3.20                     | 28.26   | 11.72   | 30  |
| 21                      | -0.01   | 0.00    | -0.01   | 30  | 45.14               | 71.10   | 60.28   | 30  | 3.58                     | 29.27   | 11.46   | 30  |
| 22                      | -0.01   | 0.00    | -0.01   | 30  | 41.57               | 71.20   | 58.81   | 30  | 4.34                     | 27.16   | 10.50   | 30  |
| 23                      | -0.01   | 0.00    | -0.01   | 30  | 40.15               | 70.00   | 57.24   | 30  | 4.00                     | 22.01   | 10.04   | 30  |
| 24                      | -0.01   | 0.00    | -0.01   | 30  | 41.62               | 68.66   | 56.01   | 30  | 5.57                     | 21.04   | 10.07   | 30  |
|                         | -0.01   | 1.34    | 0.32    | 720 | 38.06               | 83.80   | 61.31   | 720 | 1.56                     | 38.51   | 11.52   | 720 |

WOODWARD-CLYDE CONSULTANTS  
AEROMETRIC DATA SYSTEM

COMPOSITE DAY ANALYSIS

Selected Station: MET 3

Period: 9/ 1/91 thru 9/30/91

Month and year of record: SEPTEMBER, 91

| PRECIPITATION (IN) |         |         |       |     | P-G STABILITY CLASSIFICATION |         |         |     |
|--------------------|---------|---------|-------|-----|------------------------------|---------|---------|-----|
| HR                 | MINIMUM | MAXIMUM | TOTAL | OBS | MINIMUM                      | MAXIMUM | AVERAGE | OBS |
| 1                  | 0.00    | 0.03    | 0.05  | 30  | 1.00                         | 4.00    | 3.60    | 30  |
| 2                  | 0.00    | 0.01    | 0.01  | 30  | 1.00                         | 4.00    | 3.53    | 30  |
| 3                  | 0.00    | 0.00    | 0.00  | 30  | 1.00                         | 4.00    | 3.67    | 30  |
| 4                  | 0.00    | 0.01    | 0.01  | 30  | 1.00                         | 4.00    | 3.23    | 30  |
| 5                  | 0.00    | 0.00    | 0.00  | 30  | 1.00                         | 4.00    | 3.43    | 30  |
| 6                  | 0.00    | 0.00    | 0.00  | 30  | 1.00                         | 4.00    | 3.63    | 30  |
| 7                  | 0.00    | 0.01    | 0.01  | 30  | 2.00                         | 6.00    | 4.43    | 30  |
| 8                  | 0.00    | 0.00    | 0.00  | 30  | 4.00                         | 6.00    | 4.73    | 30  |
| 9                  | 0.00    | 0.03    | 0.03  | 30  | 4.00                         | 6.00    | 4.97    | 30  |
| 10                 | 0.00    | 0.02    | 0.02  | 30  | 4.00                         | 6.00    | 5.50    | 30  |
| 11                 | 0.00    | 0.05    | 0.05  | 30  | 4.00                         | 6.00    | 5.53    | 30  |
| 12                 | 0.00    | 0.01    | 0.01  | 30  | 4.00                         | 6.00    | 5.40    | 30  |
| 13                 | 0.00    | 0.00    | 0.00  | 30  | 4.00                         | 6.00    | 5.57    | 30  |
| 14                 | 0.00    | 0.01    | 0.01  | 30  | 4.00                         | 6.00    | 5.23    | 30  |
| 15                 | 0.00    | 0.00    | 0.00  | 30  | 4.00                         | 6.00    | 5.33    | 30  |
| 16                 | 0.00    | 0.03    | 0.03  | 30  | 4.00                         | 6.00    | 4.73    | 30  |
| 17                 | 0.00    | 0.28    | 0.28  | 30  | 4.00                         | 6.00    | 4.67    | 30  |
| 18                 | 0.00    | 0.01    | 0.01  | 30  | 4.00                         | 6.00    | 4.27    | 30  |
| 19                 | 0.00    | 0.00    | 0.00  | 30  | 4.00                         | 6.00    | 4.57    | 30  |
| 20                 | 0.00    | 0.08    | 0.08  | 30  | 4.00                         | 6.00    | 4.77    | 30  |
| 21                 | 0.00    | 0.03    | 0.03  | 30  | 4.00                         | 6.00    | 4.60    | 30  |
| 22                 | 0.00    | 0.08    | 0.08  | 30  | 4.00                         | 6.00    | 4.53    | 30  |
| 23                 | 0.00    | 0.22    | 0.22  | 30  | 4.00                         | 6.00    | 4.50    | 30  |
| 24                 | 0.00    | 0.18    | 0.19  | 30  | 4.00                         | 6.00    | 4.67    | 30  |
|                    | 0.00    | 0.28    | 0.00  | 720 | 1.00                         | 6.00    | 4.55    | 720 |

I2 JOINT FREQUENCY DISTRIBUTIONS

## WOODWARD-CLYDE CONSULTANTS

## AEROMETRIC DATA SYSTEM

## JOINT FREQUENCY DISTRIBUTION REPORT

Selected Station: COMPOSITE

From OCTOBER 1, 90 through SEPTEMBER 30, 91

Stability Index A

## WIND SPEED CLASSES (Knots)

| Direction | 0-3.5  | 3.5-6.5 | 6.5-10.5 | 10.5-16.5 | 16.5-20.5 | >20.5  | Total  | Avg WS |
|-----------|--------|---------|----------|-----------|-----------|--------|--------|--------|
| N         | 0.0048 | 0.0086  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0135 | 3.8418 |
| NNE       | 0.0029 | 0.0080  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0109 | 4.1836 |
| NE        | 0.0034 | 0.0086  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0120 | 4.0237 |
| ENE       | 0.0027 | 0.0058  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0085 | 4.0115 |
| E         | 0.0039 | 0.0064  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0103 | 3.8328 |
| ESE       | 0.0025 | 0.0052  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0077 | 3.9789 |
| SE        | 0.0030 | 0.0050  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0080 | 3.6618 |
| SSE       | 0.0029 | 0.0056  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0085 | 3.8669 |
| S         | 0.0041 | 0.0068  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0109 | 3.7400 |
| SSW       | 0.0031 | 0.0050  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0081 | 3.8234 |
| SW        | 0.0046 | 0.0048  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0094 | 3.7699 |
| WSW       | 0.0027 | 0.0027  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0055 | 3.6520 |
| W         | 0.0024 | 0.0025  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0048 | 3.6029 |
| WNW       | 0.0021 | 0.0024  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0045 | 3.6345 |
| NW        | 0.0039 | 0.0033  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0072 | 3.4841 |
| NNW       | 0.0027 | 0.0039  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0067 | 3.7339 |
| Total     | 0.0518 | 0.0847  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.1365 |        |
| Avg WS    | 2.6990 | 4.5264  | 0.0000   | 0.0000    | 0.0000    | 0.0000 |        | 3.8326 |

Number of hours of data for this stability - 1043

Total number of calms for the data set - 6

## WOODWARD-CLYDE CONSULTANTS

## AEROMETRIC DATA SYSTEM

## JOINT FREQUENCY DISTRIBUTION REPORT

Selected Station: COMPOSITE

From OCTOBER 1, 90 through SEPTEMBER 30, 91

Stability Index B

## WIND SPEED CLASSES (Knots)

| Direction | 0-3.5  | 3.5-6.5 | 6.5-10.5 | 10.5-16.5 | 16.5-20.5 | >20.5  | Total  | Avg WS |
|-----------|--------|---------|----------|-----------|-----------|--------|--------|--------|
| N         | 0.0001 | 0.0042  | 0.0031   | 0.0000    | 0.0000    | 0.0000 | 0.0075 | 6.0893 |
| NNE       | 0.0001 | 0.0043  | 0.0035   | 0.0000    | 0.0000    | 0.0000 | 0.0080 | 6.2855 |
| NE        | 0.0000 | 0.0029  | 0.0029   | 0.0000    | 0.0000    | 0.0000 | 0.0058 | 6.5217 |
| ENE       | 0.0000 | 0.0034  | 0.0026   | 0.0000    | 0.0000    | 0.0000 | 0.0060 | 6.2678 |
| E         | 0.0001 | 0.0031  | 0.0022   | 0.0000    | 0.0000    | 0.0000 | 0.0055 | 6.0213 |
| ESE       | 0.0001 | 0.0025  | 0.0022   | 0.0000    | 0.0000    | 0.0000 | 0.0048 | 6.2613 |
| SE        | 0.0003 | 0.0024  | 0.0017   | 0.0000    | 0.0000    | 0.0000 | 0.0043 | 5.7708 |
| SSE       | 0.0005 | 0.0018  | 0.0017   | 0.0000    | 0.0000    | 0.0000 | 0.0041 | 5.6915 |
| S         | 0.0003 | 0.0043  | 0.0018   | 0.0000    | 0.0000    | 0.0000 | 0.0064 | 5.6160 |
| SSW       | 0.0001 | 0.0048  | 0.0013   | 0.0000    | 0.0000    | 0.0000 | 0.0063 | 5.4451 |
| SW        | 0.0004 | 0.0014  | 0.0012   | 0.0000    | 0.0000    | 0.0000 | 0.0030 | 5.3933 |
| WSW       | 0.0005 | 0.0009  | 0.0016   | 0.0000    | 0.0000    | 0.0000 | 0.0030 | 5.9254 |
| W         | 0.0003 | 0.0014  | 0.0008   | 0.0000    | 0.0000    | 0.0000 | 0.0025 | 5.5444 |
| WNW       | 0.0003 | 0.0009  | 0.0010   | 0.0000    | 0.0000    | 0.0000 | 0.0022 | 5.7293 |
| NW        | 0.0007 | 0.0018  | 0.0013   | 0.0000    | 0.0000    | 0.0000 | 0.0038 | 5.4046 |
| NNW       | 0.0005 | 0.0022  | 0.0013   | 0.0000    | 0.0000    | 0.0000 | 0.0041 | 5.6868 |
| Total     | 0.0043 | 0.0425  | 0.0304   | 0.0000    | 0.0000    | 0.0000 | 0.0772 |        |
| Avg WS    | 2.9543 | 5.4034  | 7.0529   | 0.0000    | 0.0000    | 0.0000 |        | 5.9150 |

Number of hours of data for this stability - 590

Total number of calms for the data set - 6

## WOODWARD-CLYDE CONSULTANTS

## AEROMETRIC DATA SYSTEM

## JOINT FREQUENCY DISTRIBUTION REPORT

Selected Station: COMPOSITE

From OCTOBER 1, 90 through SEPTEMBER 30, 91

Stability Index C

## WIND SPEED CLASSES (Knots)

| Direction | 0-3.5  | 3.5-6.5 | 6.5-10.5 | 10.5-16.5 | 16.5-20.5 | >20.5  | Total  | Avg WS |
|-----------|--------|---------|----------|-----------|-----------|--------|--------|--------|
| N         | 0.0004 | 0.0016  | 0.0063   | 0.0013    | 0.0000    | 0.0000 | 0.0096 | 8.2587 |
| NNE       | 0.0001 | 0.0017  | 0.0065   | 0.0016    | 0.0000    | 0.0000 | 0.0099 | 8.2277 |
| NE        | 0.0000 | 0.0014  | 0.0058   | 0.0005    | 0.0000    | 0.0000 | 0.0077 | 8.2726 |
| ENE       | 0.0000 | 0.0009  | 0.0034   | 0.0008    | 0.0000    | 0.0000 | 0.0051 | 8.4907 |
| E         | 0.0001 | 0.0012  | 0.0035   | 0.0003    | 0.0000    | 0.0000 | 0.0051 | 7.7204 |
| ESE       | 0.0000 | 0.0010  | 0.0031   | 0.0003    | 0.0000    | 0.0000 | 0.0045 | 8.0945 |
| SE        | 0.0000 | 0.0010  | 0.0031   | 0.0004    | 0.0000    | 0.0000 | 0.0046 | 7.7073 |
| SSE       | 0.0000 | 0.0017  | 0.0046   | 0.0005    | 0.0000    | 0.0000 | 0.0068 | 7.9456 |
| S         | 0.0004 | 0.0033  | 0.0038   | 0.0009    | 0.0000    | 0.0000 | 0.0084 | 7.1542 |
| SSW       | 0.0004 | 0.0038  | 0.0037   | 0.0007    | 0.0000    | 0.0000 | 0.0085 | 6.7272 |
| SW        | 0.0003 | 0.0031  | 0.0020   | 0.0005    | 0.0000    | 0.0000 | 0.0059 | 6.6417 |
| WSW       | 0.0003 | 0.0017  | 0.0009   | 0.0005    | 0.0000    | 0.0000 | 0.0034 | 6.3275 |
| W         | 0.0003 | 0.0009  | 0.0018   | 0.0008    | 0.0000    | 0.0000 | 0.0038 | 7.9659 |
| WNW       | 0.0001 | 0.0007  | 0.0009   | 0.0007    | 0.0000    | 0.0000 | 0.0024 | 8.4219 |
| NW        | 0.0003 | 0.0013  | 0.0020   | 0.0003    | 0.0000    | 0.0000 | 0.0038 | 7.2921 |
| NNW       | 0.0004 | 0.0014  | 0.0034   | 0.0009    | 0.0000    | 0.0000 | 0.0062 | 7.5743 |
| Total     | 0.0030 | 0.0268  | 0.0549   | 0.0109    | 0.0000    | 0.0000 | 0.0956 |        |
| Avg WS    | 2.9539 | 5.0538  | 8.5832   | 11.0231   | 0.0000    | 0.0000 |        | 7.6921 |

Number of hours of data for this stability - 730

Total number of calms for the data set - 6

## WOODWARD-CLYDE CONSULTANTS

## AEROMETRIC DATA SYSTEM

## JOINT FREQUENCY DISTRIBUTION REPORT

Selected Station: COMPOSITE

From OCTOBER 1, 90 through SEPTEMBER 30, 91

Stability Index D

## WIND SPEED CLASSES (Knots)

| Direction | 0-3.5  | 3.5-6.5 | 6.5-10.5 | 10.5-16.5 | 16.5-20.5 | >20.5   | Total  | Avg WS  |
|-----------|--------|---------|----------|-----------|-----------|---------|--------|---------|
| N         | 0.0001 | 0.0018  | 0.0088   | 0.0076    | 0.0031    | 0.0010  | 0.0225 | 11.8797 |
| NNE       | 0.0005 | 0.0026  | 0.0080   | 0.0105    | 0.0022    | 0.0009  | 0.0247 | 11.3489 |
| NE        | 0.0001 | 0.0030  | 0.0076   | 0.0054    | 0.0013    | 0.0000  | 0.0174 | 9.8763  |
| ENE       | 0.0005 | 0.0030  | 0.0084   | 0.0041    | 0.0004    | 0.0000  | 0.0164 | 9.0170  |
| E         | 0.0004 | 0.0033  | 0.0065   | 0.0050    | 0.0001    | 0.0000  | 0.0153 | 8.9651  |
| ESE       | 0.0004 | 0.0030  | 0.0065   | 0.0034    | 0.0004    | 0.0000  | 0.0137 | 8.8252  |
| SE        | 0.0000 | 0.0051  | 0.0084   | 0.0047    | 0.0003    | 0.0001  | 0.0186 | 8.7375  |
| SSE       | 0.0003 | 0.0092  | 0.0158   | 0.0084    | 0.0024    | 0.0039  | 0.0399 | 10.9081 |
| S         | 0.0004 | 0.0219  | 0.0300   | 0.0119    | 0.0025    | 0.0035  | 0.0702 | 9.1771  |
| SSW       | 0.0013 | 0.0255  | 0.0448   | 0.0242    | 0.0024    | 0.0014  | 0.0996 | 8.9270  |
| SW        | 0.0010 | 0.0110  | 0.0109   | 0.0045    | 0.0014    | 0.0008  | 0.0296 | 8.4894  |
| WSW       | 0.0001 | 0.0031  | 0.0050   | 0.0039    | 0.0005    | 0.0001  | 0.0128 | 9.4763  |
| W         | 0.0001 | 0.0027  | 0.0051   | 0.0071    | 0.0018    | 0.0016  | 0.0185 | 12.0967 |
| WNW       | 0.0001 | 0.0025  | 0.0041   | 0.0089    | 0.0051    | 0.0014  | 0.0221 | 13.3204 |
| NW        | 0.0005 | 0.0029  | 0.0048   | 0.0062    | 0.0026    | 0.0005  | 0.0175 | 11.2435 |
| NNW       | 0.0005 | 0.0052  | 0.0082   | 0.0080    | 0.0010    | 0.0008  | 0.0238 | 9.9687  |
| Total     | 0.0065 | 0.1059  | 0.1829   | 0.1236    | 0.0276    | 0.0162  | 0.4628 |         |
| Avg WS    | 2.9222 | 5.3432  | 8.2010   | 12.9607   | 18.2954   | 24.1020 |        | 9.9037  |

Number of hours of data for this stability - 3535

Total number of calms for the data set - 6

## WOODWARD-CLYDE CONSULTANTS

## AEROMETRIC DATA SYSTEM

## JOINT FREQUENCY DISTRIBUTION REPORT

Selected Station: COMPOSITE

From OCTOBER 1, 90 through SEPTEMBER 30, 91

Stability Index E

## WIND SPEED CLASSES (Knots)

| Direction | 0-3.5  | 3.5-6.5 | 6.5-10.5 | 10.5-16.5 | 16.5-20.5 | >20.5  | Total  | Avg WS |
|-----------|--------|---------|----------|-----------|-----------|--------|--------|--------|
| N         | 0.0007 | 0.0017  | 0.0007   | 0.0000    | 0.0000    | 0.0000 | 0.0030 | 5.2874 |
| NNE       | 0.0001 | 0.0021  | 0.0026   | 0.0000    | 0.0000    | 0.0000 | 0.0048 | 6.6442 |
| NE        | 0.0005 | 0.0016  | 0.0012   | 0.0000    | 0.0000    | 0.0000 | 0.0033 | 5.8930 |
| ENE       | 0.0004 | 0.0021  | 0.0014   | 0.0000    | 0.0000    | 0.0000 | 0.0039 | 6.0849 |
| E         | 0.0008 | 0.0020  | 0.0024   | 0.0000    | 0.0000    | 0.0000 | 0.0051 | 6.0193 |
| ESE       | 0.0001 | 0.0027  | 0.0014   | 0.0000    | 0.0000    | 0.0000 | 0.0043 | 5.9489 |
| SE        | 0.0004 | 0.0027  | 0.0027   | 0.0000    | 0.0000    | 0.0000 | 0.0059 | 6.4471 |
| SSE       | 0.0007 | 0.0042  | 0.0058   | 0.0000    | 0.0000    | 0.0000 | 0.0106 | 6.5111 |
| S         | 0.0005 | 0.0128  | 0.0161   | 0.0000    | 0.0000    | 0.0000 | 0.0295 | 6.5968 |
| SSW       | 0.0003 | 0.0096  | 0.0281   | 0.0000    | 0.0000    | 0.0000 | 0.0380 | 7.3611 |
| SW        | 0.0007 | 0.0037  | 0.0026   | 0.0000    | 0.0000    | 0.0000 | 0.0069 | 5.8862 |
| WSW       | 0.0001 | 0.0037  | 0.0010   | 0.0000    | 0.0000    | 0.0000 | 0.0048 | 5.7920 |
| W         | 0.0010 | 0.0014  | 0.0004   | 0.0000    | 0.0000    | 0.0000 | 0.0029 | 4.6658 |
| WNW       | 0.0003 | 0.0018  | 0.0009   | 0.0000    | 0.0000    | 0.0000 | 0.0030 | 5.4317 |
| NW        | 0.0004 | 0.0027  | 0.0014   | 0.0000    | 0.0000    | 0.0000 | 0.0046 | 5.6994 |
| NNW       | 0.0005 | 0.0027  | 0.0018   | 0.0000    | 0.0000    | 0.0000 | 0.0051 | 5.7563 |
| Total     | 0.0075 | 0.0576  | 0.0707   | 0.0000    | 0.0000    | 0.0000 | 0.1358 |        |
| Avg WS    | 2.7170 | 5.2493  | 7.9225   | 0.0000    | 0.0000    | 0.0000 |        | 6.5021 |

Number of hours of data for this stability - 1037

Total number of calms for the data set - 6



## WOODWARD-CLYDE CONSULTANTS

## AEROMETRIC DATA SYSTEM

## JOINT FREQUENCY DISTRIBUTION REPORT

Selected Station: COMPOSITE

From OCTOBER 1, 90 through SEPTEMBER 30, 91

Stability Index F

## WIND SPEED CLASSES (Knots)

| Direction | 0-3.5  | 3.5-6.5 | 6.5-10.5 | 10.5-16.5 | 16.5-20.5 | >20.5  | Total  | Avg WS |
|-----------|--------|---------|----------|-----------|-----------|--------|--------|--------|
| N         | 0.0026 | 0.0029  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0055 | 3.7215 |
| NNE       | 0.0025 | 0.0027  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0052 | 3.5249 |
| NE        | 0.0018 | 0.0029  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0047 | 3.7363 |
| ENE       | 0.0026 | 0.0021  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0047 | 3.4331 |
| E         | 0.0029 | 0.0027  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0056 | 3.3785 |
| ESE       | 0.0018 | 0.0029  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0047 | 3.8108 |
| SE        | 0.0022 | 0.0031  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0054 | 3.6077 |
| SSE       | 0.0026 | 0.0038  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0064 | 3.6953 |
| S         | 0.0029 | 0.0050  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0079 | 3.8434 |
| SSW       | 0.0030 | 0.0062  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0092 | 4.0014 |
| SW        | 0.0033 | 0.0055  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0088 | 3.7424 |
| WSW       | 0.0021 | 0.0034  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0055 | 3.6624 |
| W         | 0.0027 | 0.0018  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0046 | 3.5104 |
| WNW       | 0.0022 | 0.0026  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0048 | 3.5758 |
| NW        | 0.0025 | 0.0020  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0045 | 3.4314 |
| NNW       | 0.0029 | 0.0018  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0047 | 3.2664 |
| Total     | 0.0407 | 0.0514  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0922 |        |
| Avg WS    | 2.6671 | 4.4328  | 0.0000   | 0.0000    | 0.0000    | 0.0000 |        | 3.6528 |

Number of hours of data for this stability - 704

Total number of calms for the data set - 6

## WOODWARD-CLYDE CONSULTANTS

## AEROMETRIC DATA SYSTEM

## JOINT FREQUENCY DISTRIBUTION REPORT

Selected Station: COMPOSITE

From OCTOBER 1, 90 through SEPTEMBER 30, 91

Stability Index ALL

## WIND SPEED CLASSES (Knots)

| Direction | 0-3.5  | 3.5-6.5 | 6.5-10.5 | 10.5-16.5 | 16.5-20.5 | >20.5   | Total  | Avg WS |
|-----------|--------|---------|----------|-----------|-----------|---------|--------|--------|
| N         | 0.0088 | 0.0208  | 0.0189   | 0.0089    | 0.0031    | 0.0010  | 0.0615 | 7.8019 |
| NNE       | 0.0063 | 0.0215  | 0.0207   | 0.0120    | 0.0022    | 0.0009  | 0.0636 | 7.9995 |
| NE        | 0.0059 | 0.0204  | 0.0174   | 0.0059    | 0.0013    | 0.0000  | 0.0509 | 7.0453 |
| ENE       | 0.0063 | 0.0173  | 0.0158   | 0.0048    | 0.0004    | 0.0000  | 0.0446 | 6.7844 |
| E         | 0.0082 | 0.0187  | 0.0147   | 0.0052    | 0.0001    | 0.0000  | 0.0470 | 6.3669 |
| ESE       | 0.0050 | 0.0174  | 0.0134   | 0.0037    | 0.0004    | 0.0000  | 0.0398 | 6.5848 |
| SE        | 0.0059 | 0.0194  | 0.0160   | 0.0051    | 0.0003    | 0.0001  | 0.0467 | 6.6171 |
| SSE       | 0.0069 | 0.0263  | 0.0279   | 0.0089    | 0.0024    | 0.0039  | 0.0763 | 8.3643 |
| S         | 0.0085 | 0.0541  | 0.0517   | 0.0128    | 0.0025    | 0.0035  | 0.1331 | 7.5489 |
| SSW       | 0.0082 | 0.0549  | 0.0779   | 0.0249    | 0.0024    | 0.0014  | 0.1697 | 7.8271 |
| SW        | 0.0102 | 0.0296  | 0.0166   | 0.0050    | 0.0014    | 0.0008  | 0.0636 | 6.5343 |
| WSW       | 0.0059 | 0.0156  | 0.0085   | 0.0045    | 0.0005    | 0.0001  | 0.0351 | 6.5335 |
| W         | 0.0068 | 0.0109  | 0.0081   | 0.0079    | 0.0018    | 0.0016  | 0.0370 | 8.4834 |
| WNW       | 0.0051 | 0.0109  | 0.0069   | 0.0096    | 0.0051    | 0.0014  | 0.0390 | 9.6676 |
| NW        | 0.0082 | 0.0140  | 0.0096   | 0.0064    | 0.0026    | 0.0005  | 0.0414 | 7.5399 |
| NNW       | 0.0076 | 0.0174  | 0.0148   | 0.0089    | 0.0010    | 0.0008  | 0.0505 | 7.4588 |
| Total     | 0.1139 | 0.3690  | 0.3388   | 0.1344    | 0.0276    | 0.0162  | 1.0000 |        |
| Avg WS    | 2.7180 | 5.0001  | 8.1019   | 12.8041   | 18.2954   | 24.1020 |        | 7.5175 |

Number of hours of data for this stability - 7639

Total number of calms for the data set - 6

## WOODWARD-CLYDE CONSULTANTS

## AEROMETRIC DATA SYSTEM

## JOINT FREQUENCY DISTRIBUTION REPORT

Selected Station: MET 1

From JANUARY 22, 91 through SEPTEMBER 30, 91

Stability Index A

## WIND SPEED CLASSES (Knots)

| Direction | 0-3.5  | 3.5-6.5 | 6.5-10.5 | 10.5-16.5 | 16.5-20.5 | >20.5  | Total  | Avg WS |
|-----------|--------|---------|----------|-----------|-----------|--------|--------|--------|
| N         | 0.0016 | 0.0091  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0107 | 4.4058 |
| NNE       | 0.0006 | 0.0097  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0103 | 4.6206 |
| NE        | 0.0016 | 0.0082  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0099 | 4.4129 |
| ENE       | 0.0016 | 0.0054  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0070 | 4.1811 |
| E         | 0.0019 | 0.0076  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0095 | 4.3655 |
| ESE       | 0.0012 | 0.0062  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0074 | 4.3410 |
| SE        | 0.0025 | 0.0041  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0066 | 3.8463 |
| SSE       | 0.0012 | 0.0072  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0084 | 4.3258 |
| S         | 0.0029 | 0.0052  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0080 | 3.9675 |
| SSW       | 0.0033 | 0.0049  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0082 | 3.9188 |
| SW        | 0.0025 | 0.0031  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0056 | 3.8369 |
| WSW       | 0.0016 | 0.0037  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0054 | 4.0232 |
| W         | 0.0027 | 0.0029  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0056 | 3.7781 |
| WNW       | 0.0019 | 0.0012  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0031 | 3.4500 |
| NW        | 0.0029 | 0.0060  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0089 | 3.8665 |
| NNW       | 0.0029 | 0.0039  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0068 | 3.7763 |
| Total     | 0.0330 | 0.0884  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.1213 |        |
| Avg WS    | 2.7731 | 4.6440  | 0.0000   | 0.0000    | 0.0000    | 0.0000 |        | 4.1357 |

Number of hours of data for this stability - 589

Total number of calms for the data set - 9

## WOODWARD-CLYDE CONSULTANTS

## AEROMETRIC DATA SYSTEM

## JOINT FREQUENCY DISTRIBUTION REPORT

Selected Station: MET 1

From JANUARY 22, 91 through SEPTEMBER 30, 91

Stability Index B

## WIND SPEED CLASSES (Knots)

| Direction | 0-3.5  | 3.5-6.5 | 6.5-10.5 | 10.5-16.5 | 16.5-20.5 | >20.5  | Total  | Avg WS |
|-----------|--------|---------|----------|-----------|-----------|--------|--------|--------|
| N         | 0.0002 | 0.0047  | 0.0052   | 0.0000    | 0.0000    | 0.0000 | 0.0101 | 6.2900 |
| NNE       | 0.0004 | 0.0035  | 0.0043   | 0.0000    | 0.0000    | 0.0000 | 0.0082 | 6.2509 |
| NE        | 0.0004 | 0.0047  | 0.0043   | 0.0000    | 0.0000    | 0.0000 | 0.0095 | 6.1738 |
| ENE       | 0.0004 | 0.0021  | 0.0021   | 0.0000    | 0.0000    | 0.0000 | 0.0045 | 5.9285 |
| E         | 0.0002 | 0.0021  | 0.0021   | 0.0000    | 0.0000    | 0.0000 | 0.0043 | 6.0094 |
| ESE       | 0.0002 | 0.0023  | 0.0014   | 0.0000    | 0.0000    | 0.0000 | 0.0039 | 5.9657 |
| SE        | 0.0000 | 0.0008  | 0.0025   | 0.0000    | 0.0000    | 0.0000 | 0.0033 | 6.6219 |
| SSE       | 0.0004 | 0.0010  | 0.0014   | 0.0000    | 0.0000    | 0.0000 | 0.0029 | 5.9547 |
| S         | 0.0000 | 0.0016  | 0.0021   | 0.0000    | 0.0000    | 0.0000 | 0.0037 | 6.3029 |
| SSW       | 0.0010 | 0.0031  | 0.0006   | 0.0000    | 0.0000    | 0.0000 | 0.0047 | 4.6125 |
| SW        | 0.0006 | 0.0014  | 0.0016   | 0.0000    | 0.0000    | 0.0000 | 0.0037 | 5.6999 |
| WSW       | 0.0008 | 0.0010  | 0.0010   | 0.0000    | 0.0000    | 0.0000 | 0.0029 | 5.4883 |
| W         | 0.0006 | 0.0027  | 0.0014   | 0.0000    | 0.0000    | 0.0000 | 0.0047 | 5.4152 |
| WNW       | 0.0004 | 0.0014  | 0.0008   | 0.0000    | 0.0000    | 0.0000 | 0.0027 | 5.2799 |
| NW        | 0.0004 | 0.0012  | 0.0006   | 0.0000    | 0.0000    | 0.0000 | 0.0023 | 5.2106 |
| NNW       | 0.0002 | 0.0021  | 0.0035   | 0.0000    | 0.0000    | 0.0000 | 0.0058 | 6.3801 |
| Total     | 0.0064 | 0.0358  | 0.0350   | 0.0000    | 0.0000    | 0.0000 | 0.0773 |        |
| Avg WS    | 2.7682 | 5.4699  | 7.0122   | 0.0000    | 0.0000    | 0.0000 |        | 5.9457 |

Number of hours of data for this stability - 375

Total number of calms for the data set - 9

## WOODWARD-CLYDE CONSULTANTS

## AEROMETRIC DATA SYSTEM

## JOINT FREQUENCY DISTRIBUTION REPORT

Selected Station: MET 1

From JANUARY 22, 91 through SEPTEMBER 30, 91

Stability Index C

## WIND SPEED CLASSES (Knots)

| Direction | 0-3.5  | 3.5-6.5 | 6.5-10.5 | 10.5-16.5 | 16.5-20.5 | >20.5  | Total  | Avg WS |
|-----------|--------|---------|----------|-----------|-----------|--------|--------|--------|
| N         | 0.0004 | 0.0025  | 0.0119   | 0.0016    | 0.0000    | 0.0000 | 0.0165 | 8.2340 |
| NNE       | 0.0008 | 0.0019  | 0.0072   | 0.0012    | 0.0000    | 0.0000 | 0.0111 | 7.9592 |
| NE        | 0.0006 | 0.0010  | 0.0078   | 0.0006    | 0.0000    | 0.0000 | 0.0101 | 7.9789 |
| ENE       | 0.0000 | 0.0012  | 0.0033   | 0.0000    | 0.0000    | 0.0000 | 0.0045 | 7.5238 |
| E         | 0.0006 | 0.0016  | 0.0031   | 0.0002    | 0.0000    | 0.0000 | 0.0056 | 7.4754 |
| ESE       | 0.0006 | 0.0008  | 0.0019   | 0.0000    | 0.0000    | 0.0000 | 0.0033 | 6.9529 |
| SE        | 0.0004 | 0.0012  | 0.0025   | 0.0004    | 0.0000    | 0.0000 | 0.0045 | 7.1441 |
| SSE       | 0.0002 | 0.0010  | 0.0014   | 0.0008    | 0.0000    | 0.0000 | 0.0035 | 7.7370 |
| S         | 0.0002 | 0.0029  | 0.0035   | 0.0008    | 0.0000    | 0.0000 | 0.0074 | 7.1270 |
| SSW       | 0.0002 | 0.0043  | 0.0043   | 0.0004    | 0.0000    | 0.0000 | 0.0093 | 6.7559 |
| SW        | 0.0004 | 0.0025  | 0.0016   | 0.0002    | 0.0000    | 0.0000 | 0.0047 | 6.3616 |
| WSW       | 0.0002 | 0.0021  | 0.0008   | 0.0002    | 0.0000    | 0.0000 | 0.0033 | 6.0330 |
| W         | 0.0012 | 0.0010  | 0.0019   | 0.0004    | 0.0000    | 0.0000 | 0.0045 | 6.4593 |
| WNW       | 0.0000 | 0.0016  | 0.0016   | 0.0004    | 0.0000    | 0.0000 | 0.0037 | 7.4640 |
| NW        | 0.0004 | 0.0014  | 0.0025   | 0.0000    | 0.0000    | 0.0000 | 0.0043 | 6.5333 |
| NNW       | 0.0002 | 0.0012  | 0.0037   | 0.0016    | 0.0000    | 0.0000 | 0.0068 | 8.1970 |
| Total     | 0.0066 | 0.0284  | 0.0591   | 0.0091    | 0.0000    | 0.0000 | 0.1032 |        |
| Avg WS    | 2.7194 | 5.1092  | 8.5725   | 10.9544   | 0.0000    | 0.0000 |        | 7.4539 |

Number of hours of data for this stability - 501

Total number of calms for the data set - 9

## WOODWARD-CLYDE CONSULTANTS

## AEROMETRIC DATA SYSTEM

## JOINT FREQUENCY DISTRIBUTION REPORT

Selected Station: MET 1

From JANUARY 22, 91 through SEPTEMBER 30, 91

Stability Index D

## WIND SPEED CLASSES (Knots)

| Direction | 0-3.5  | 3.5-6.5 | 6.5-10.5 | 10.5-16.5 | 16.5-20.5 | >20.5   | Total  | Avg WS  |
|-----------|--------|---------|----------|-----------|-----------|---------|--------|---------|
| N         | 0.0008 | 0.0039  | 0.0068   | 0.0111    | 0.0052    | 0.0014  | 0.0293 | 12.1002 |
| NNE       | 0.0002 | 0.0033  | 0.0064   | 0.0115    | 0.0027    | 0.0004  | 0.0245 | 11.4813 |
| NE        | 0.0004 | 0.0043  | 0.0076   | 0.0054    | 0.0010    | 0.0000  | 0.0187 | 9.1910  |
| ENE       | 0.0002 | 0.0066  | 0.0078   | 0.0039    | 0.0002    | 0.0000  | 0.0187 | 8.0253  |
| E         | 0.0002 | 0.0049  | 0.0087   | 0.0029    | 0.0006    | 0.0000  | 0.0173 | 8.2056  |
| ESE       | 0.0010 | 0.0049  | 0.0058   | 0.0041    | 0.0004    | 0.0000  | 0.0163 | 8.5350  |
| SE        | 0.0008 | 0.0052  | 0.0062   | 0.0087    | 0.0006    | 0.0002  | 0.0216 | 9.5649  |
| SSE       | 0.0006 | 0.0049  | 0.0130   | 0.0093    | 0.0025    | 0.0064  | 0.0367 | 12.3225 |
| S         | 0.0008 | 0.0105  | 0.0284   | 0.0150    | 0.0033    | 0.0025  | 0.0606 | 9.9442  |
| SSW       | 0.0006 | 0.0208  | 0.0451   | 0.0130    | 0.0029    | 0.0012  | 0.0836 | 8.7557  |
| SW        | 0.0016 | 0.0136  | 0.0146   | 0.0060    | 0.0014    | 0.0006  | 0.0379 | 8.2419  |
| WSW       | 0.0010 | 0.0041  | 0.0056   | 0.0049    | 0.0008    | 0.0002  | 0.0167 | 9.1780  |
| W         | 0.0008 | 0.0031  | 0.0060   | 0.0093    | 0.0027    | 0.0008  | 0.0227 | 11.4275 |
| WNW       | 0.0002 | 0.0031  | 0.0039   | 0.0093    | 0.0060    | 0.0014  | 0.0239 | 13.2256 |
| NW        | 0.0006 | 0.0025  | 0.0049   | 0.0060    | 0.0010    | 0.0004  | 0.0155 | 10.7983 |
| NNW       | 0.0004 | 0.0066  | 0.0076   | 0.0058    | 0.0010    | 0.0004  | 0.0218 | 9.1514  |
| Total     | 0.0105 | 0.1024  | 0.1784   | 0.1261    | 0.0323    | 0.0161  | 0.4658 |         |
| Avg WS    | 2.8046 | 5.2694  | 8.2825   | 12.9542   | 18.2512   | 22.9996 |        | 9.9610  |

Number of hours of data for this stability - 2261

Total number of calms for the data set - 9

## WOODWARD-CLYDE CONSULTANTS

## AEROMETRIC DATA SYSTEM

## JOINT FREQUENCY DISTRIBUTION REPORT

Selected Station: MET 1

From JANUARY 22, 91 through SEPTEMBER 30, 91

Stability Index E

## WIND SPEED CLASSES (Knots)

| Direction | 0-3.5  | 3.5-6.5 | 6.5-10.5 | 10.5-16.5 | 16.5-20.5 | >20.5  | Total  | Avg WS |
|-----------|--------|---------|----------|-----------|-----------|--------|--------|--------|
| N         | 0.0016 | 0.0029  | 0.0002   | 0.0000    | 0.0000    | 0.0000 | 0.0047 | 4.1833 |
| NNE       | 0.0002 | 0.0029  | 0.0025   | 0.0000    | 0.0000    | 0.0000 | 0.0056 | 6.3926 |
| NE        | 0.0008 | 0.0016  | 0.0010   | 0.0000    | 0.0000    | 0.0000 | 0.0035 | 4.8339 |
| ENE       | 0.0002 | 0.0012  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0014 | 3.9731 |
| E         | 0.0004 | 0.0025  | 0.0004   | 0.0000    | 0.0000    | 0.0000 | 0.0033 | 5.2234 |
| ESE       | 0.0008 | 0.0029  | 0.0043   | 0.0000    | 0.0000    | 0.0000 | 0.0080 | 6.4316 |
| SE        | 0.0000 | 0.0039  | 0.0072   | 0.0000    | 0.0000    | 0.0000 | 0.0111 | 6.8316 |
| SSE       | 0.0000 | 0.0049  | 0.0103   | 0.0000    | 0.0000    | 0.0000 | 0.0152 | 7.1072 |
| S         | 0.0004 | 0.0095  | 0.0290   | 0.0000    | 0.0000    | 0.0000 | 0.0389 | 7.3725 |
| SSW       | 0.0010 | 0.0103  | 0.0461   | 0.0000    | 0.0000    | 0.0000 | 0.0575 | 7.4763 |
| SW        | 0.0006 | 0.0060  | 0.0064   | 0.0000    | 0.0000    | 0.0000 | 0.0130 | 6.2947 |
| WSW       | 0.0002 | 0.0023  | 0.0016   | 0.0000    | 0.0000    | 0.0000 | 0.0041 | 6.0946 |
| W         | 0.0004 | 0.0021  | 0.0016   | 0.0000    | 0.0000    | 0.0000 | 0.0041 | 5.9735 |
| WNW       | 0.0008 | 0.0019  | 0.0008   | 0.0000    | 0.0000    | 0.0000 | 0.0035 | 5.2021 |
| NW        | 0.0008 | 0.0016  | 0.0016   | 0.0000    | 0.0000    | 0.0000 | 0.0041 | 5.7360 |
| NNW       | 0.0000 | 0.0023  | 0.0006   | 0.0000    | 0.0000    | 0.0000 | 0.0029 | 5.5813 |
| Total     | 0.0084 | 0.0587  | 0.1139   | 0.0000    | 0.0000    | 0.0000 | 0.1811 |        |
| Avg WS    | 2.9248 | 5.1545  | 7.9884   | 0.0000    | 0.0000    | 0.0000 |        | 6.8334 |

Number of hours of data for this stability - 879

Total number of calms for the data set - 9

## WOODWARD-CLYDE CONSULTANTS

## AEROMETRIC DATA SYSTEM

## JOINT FREQUENCY DISTRIBUTION REPORT

Selected Station: MET 1

From JANUARY 22, 91 through SEPTEMBER 30, 91

Stability Index F

## WIND SPEED CLASSES (Knots)

| Direction | 0-3.5  | 3.5-6.5 | 6.5-10.5 | 10.5-16.5 | 16.5-20.5 | >20.5  | Total  | Avg WS |
|-----------|--------|---------|----------|-----------|-----------|--------|--------|--------|
| N         | 0.0027 | 0.0016  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0043 | 3.1370 |
| NNE       | 0.0019 | 0.0006  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0025 | 2.8972 |
| NE        | 0.0014 | 0.0023  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0037 | 3.4799 |
| ENE       | 0.0014 | 0.0016  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0031 | 3.3100 |
| E         | 0.0012 | 0.0025  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0037 | 3.6358 |
| ESE       | 0.0010 | 0.0010  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0021 | 3.3542 |
| SE        | 0.0023 | 0.0004  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0027 | 2.7572 |
| SSE       | 0.0008 | 0.0012  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0021 | 3.9256 |
| S         | 0.0023 | 0.0027  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0049 | 3.6989 |
| SSW       | 0.0002 | 0.0012  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0014 | 4.1728 |
| SW        | 0.0025 | 0.0037  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0062 | 3.6822 |
| WSW       | 0.0019 | 0.0025  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0043 | 3.6923 |
| W         | 0.0010 | 0.0012  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0023 | 3.4219 |
| WNW       | 0.0016 | 0.0012  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0029 | 3.1780 |
| NW        | 0.0008 | 0.0010  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0019 | 3.3015 |
| NNW       | 0.0025 | 0.0008  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0033 | 3.1384 |
| Total     | 0.0255 | 0.0258  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0513 |        |
| Avg WS    | 2.5031 | 4.3575  | 0.0000   | 0.0000    | 0.0000    | 0.0000 |        | 3.4340 |

Number of hours of data for this stability - 249

Total number of calms for the data set - 9



## WOODWARD-CLYDE CONSULTANTS

## AEROMETRIC DATA SYSTEM

## JOINT FREQUENCY DISTRIBUTION REPORT

Selected Station: MET 1

From JANUARY 22, 91 through SEPTEMBER 30, 91

Stability Index ALL

## WIND SPEED CLASSES (Knots)

| Direction | 0-3.5  | 3.5-6.5 | 6.5-10.5 | 10.5-16.5 | 16.5-20.5 | >20.5   | Total  | Avg WS |
|-----------|--------|---------|----------|-----------|-----------|---------|--------|--------|
| N         | 0.0074 | 0.0247  | 0.0241   | 0.0128    | 0.0052    | 0.0014  | 0.0756 | 8.3824 |
| NNE       | 0.0041 | 0.0218  | 0.0204   | 0.0128    | 0.0027    | 0.0004  | 0.0622 | 8.2268 |
| NE        | 0.0054 | 0.0222  | 0.0208   | 0.0060    | 0.0010    | 0.0000  | 0.0554 | 6.9442 |
| ENE       | 0.0039 | 0.0181  | 0.0132   | 0.0039    | 0.0002    | 0.0000  | 0.0393 | 6.5229 |
| E         | 0.0045 | 0.0212  | 0.0142   | 0.0031    | 0.0006    | 0.0000  | 0.0437 | 6.4487 |
| ESE       | 0.0049 | 0.0181  | 0.0134   | 0.0041    | 0.0004    | 0.0000  | 0.0410 | 6.7312 |
| SE        | 0.0060 | 0.0157  | 0.0183   | 0.0091    | 0.0006    | 0.0002  | 0.0499 | 7.4185 |
| SSE       | 0.0033 | 0.0204  | 0.0262   | 0.0101    | 0.0025    | 0.0064  | 0.0688 | 9.4337 |
| S         | 0.0066 | 0.0323  | 0.0630   | 0.0159    | 0.0033    | 0.0025  | 0.1236 | 8.2175 |
| SSW       | 0.0064 | 0.0447  | 0.0962   | 0.0134    | 0.0029    | 0.0012  | 0.1648 | 7.7960 |
| SW        | 0.0082 | 0.0303  | 0.0243   | 0.0062    | 0.0014    | 0.0006  | 0.0711 | 6.8871 |
| WSW       | 0.0058 | 0.0157  | 0.0091   | 0.0052    | 0.0008    | 0.0002  | 0.0367 | 6.8585 |
| W         | 0.0068 | 0.0130  | 0.0109   | 0.0097    | 0.0027    | 0.0008  | 0.0439 | 8.3699 |
| WNW       | 0.0049 | 0.0105  | 0.0072   | 0.0097    | 0.0060    | 0.0014  | 0.0398 | 9.9577 |
| NW        | 0.0060 | 0.0138  | 0.0097   | 0.0060    | 0.0010    | 0.0004  | 0.0369 | 7.3468 |
| NNW       | 0.0062 | 0.0169  | 0.0155   | 0.0074    | 0.0010    | 0.0004  | 0.0474 | 7.2703 |
| Total     | 0.0904 | 0.3395  | 0.3865   | 0.1351    | 0.0323    | 0.0161  | 1.0000 |        |
| Avg WS    | 2.7104 | 5.0253  | 8.1251   | 12.8200   | 18.2512   | 22.9996 |        | 7.7840 |

Number of hours of data for this stability - 4854

Total number of calms for the data set - 9

## WOODWARD-CLYDE CONSULTANTS

## AEROMETRIC DATA SYSTEM

## JOINT FREQUENCY DISTRIBUTION REPORT

Selected Station: MET 2

From JANUARY 25, 91 through SEPTEMBER 30, 91

Stability Index A

## WIND SPEED CLASSES (Knots)

| Direction | 0-3.5  | 3.5-6.5 | 6.5-10.5 | 10.5-16.5 | 16.5-20.5 | >20.5  | Total  | Avg WS |
|-----------|--------|---------|----------|-----------|-----------|--------|--------|--------|
| N         | 0.0035 | 0.0098  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0133 | 4.1886 |
| NNE       | 0.0028 | 0.0114  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0142 | 4.3816 |
| NE        | 0.0026 | 0.0091  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0117 | 4.2692 |
| ENE       | 0.0026 | 0.0079  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0105 | 4.2585 |
| E         | 0.0022 | 0.0062  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0085 | 4.0454 |
| ESE       | 0.0024 | 0.0072  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0097 | 4.1311 |
| SE        | 0.0035 | 0.0059  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0093 | 4.0226 |
| SSE       | 0.0026 | 0.0038  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0064 | 3.7133 |
| S         | 0.0035 | 0.0090  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0124 | 4.0639 |
| SSW       | 0.0021 | 0.0047  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0067 | 3.9494 |
| SW        | 0.0029 | 0.0045  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0074 | 3.8936 |
| WSW       | 0.0029 | 0.0038  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0067 | 3.7978 |
| W         | 0.0026 | 0.0022  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0048 | 3.5706 |
| WNW       | 0.0022 | 0.0038  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0060 | 3.9455 |
| NW        | 0.0040 | 0.0036  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0076 | 3.5395 |
| NNW       | 0.0021 | 0.0043  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0064 | 4.0254 |
| Total     | 0.0443 | 0.0973  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.1417 |        |
| Avg WS    | 2.8054 | 4.6099  | 0.0000   | 0.0000    | 0.0000    | 0.0000 |        | 4.0450 |

Number of hours of data for this stability - 821

Total number of calms for the data set - 3

## WOODWARD-CLYDE CONSULTANTS

## AEROMETRIC DATA SYSTEM

## JOINT FREQUENCY DISTRIBUTION REPORT

Selected Station: MET 2

From JANUARY 25, 91 through SEPTEMBER 30, 91

Stability Index B

## WIND SPEED CLASSES (Knots)

| Direction | 0-3.5  | 3.5-6.5 | 6.5-10.5 | 10.5-16.5 | 16.5-20.5 | >20.5  | Total  | Avg WS |
|-----------|--------|---------|----------|-----------|-----------|--------|--------|--------|
| N         | 0.0007 | 0.0043  | 0.0060   | 0.0000    | 0.0000    | 0.0000 | 0.0110 | 6.2330 |
| NNE       | 0.0002 | 0.0055  | 0.0040   | 0.0000    | 0.0000    | 0.0000 | 0.0097 | 6.1948 |
| NE        | 0.0002 | 0.0022  | 0.0050   | 0.0000    | 0.0000    | 0.0000 | 0.0074 | 6.4900 |
| ENE       | 0.0002 | 0.0036  | 0.0029   | 0.0000    | 0.0000    | 0.0000 | 0.0067 | 6.1821 |
| E         | 0.0003 | 0.0038  | 0.0024   | 0.0000    | 0.0000    | 0.0000 | 0.0066 | 5.9803 |
| ESE       | 0.0000 | 0.0016  | 0.0014   | 0.0000    | 0.0000    | 0.0000 | 0.0029 | 6.4039 |
| SE        | 0.0002 | 0.0038  | 0.0017   | 0.0000    | 0.0000    | 0.0000 | 0.0057 | 5.8476 |
| SSE       | 0.0003 | 0.0019  | 0.0010   | 0.0000    | 0.0000    | 0.0000 | 0.0033 | 5.6124 |
| S         | 0.0007 | 0.0038  | 0.0019   | 0.0000    | 0.0000    | 0.0000 | 0.0064 | 5.7092 |
| SSW       | 0.0007 | 0.0024  | 0.0005   | 0.0000    | 0.0000    | 0.0000 | 0.0036 | 4.9906 |
| SW        | 0.0002 | 0.0026  | 0.0007   | 0.0000    | 0.0000    | 0.0000 | 0.0035 | 5.2575 |
| WSW       | 0.0003 | 0.0012  | 0.0010   | 0.0000    | 0.0000    | 0.0000 | 0.0026 | 5.2827 |
| W         | 0.0005 | 0.0031  | 0.0014   | 0.0000    | 0.0000    | 0.0000 | 0.0050 | 5.3343 |
| WNW       | 0.0005 | 0.0016  | 0.0010   | 0.0000    | 0.0000    | 0.0000 | 0.0031 | 5.6227 |
| NW        | 0.0002 | 0.0014  | 0.0014   | 0.0000    | 0.0000    | 0.0000 | 0.0029 | 5.7098 |
| NNW       | 0.0005 | 0.0033  | 0.0028   | 0.0000    | 0.0000    | 0.0000 | 0.0066 | 5.7817 |
| Total     | 0.0057 | 0.0461  | 0.0352   | 0.0000    | 0.0000    | 0.0000 | 0.0870 |        |
| Avg WS    | 3.0338 | 5.4134  | 7.0066   | 0.0000    | 0.0000    | 0.0000 |        | 5.9024 |

Number of hours of data for this stability - 504

Total number of calms for the data set - 3

## WOODWARD-CLYDE CONSULTANTS

## AEROMETRIC DATA SYSTEM

## JOINT FREQUENCY DISTRIBUTION REPORT

Selected Station: MET 2

From JANUARY 25, 91 through SEPTEMBER 30, 91

Stability Index C

## WIND SPEED CLASSES (Knots)

| Direction | 0-3.5  | 3.5-6.5 | 6.5-10.5 | 10.5-16.5 | 16.5-20.5 | >20.5  | Total  | Avg WS |
|-----------|--------|---------|----------|-----------|-----------|--------|--------|--------|
| N         | 0.0003 | 0.0017  | 0.0091   | 0.0017    | 0.0000    | 0.0000 | 0.0129 | 8.3622 |
| NNE       | 0.0003 | 0.0016  | 0.0081   | 0.0017    | 0.0000    | 0.0000 | 0.0117 | 8.2645 |
| NE        | 0.0003 | 0.0010  | 0.0052   | 0.0003    | 0.0000    | 0.0000 | 0.0069 | 7.9078 |
| ENE       | 0.0000 | 0.0005  | 0.0036   | 0.0003    | 0.0000    | 0.0000 | 0.0045 | 8.2011 |
| E         | 0.0000 | 0.0016  | 0.0035   | 0.0003    | 0.0000    | 0.0000 | 0.0053 | 7.8844 |
| ESE       | 0.0003 | 0.0019  | 0.0031   | 0.0005    | 0.0000    | 0.0000 | 0.0059 | 7.3062 |
| SE        | 0.0002 | 0.0017  | 0.0035   | 0.0010    | 0.0000    | 0.0000 | 0.0064 | 7.8320 |
| SSE       | 0.0002 | 0.0016  | 0.0035   | 0.0012    | 0.0000    | 0.0000 | 0.0064 | 8.0693 |
| S         | 0.0002 | 0.0035  | 0.0040   | 0.0007    | 0.0000    | 0.0000 | 0.0083 | 7.0665 |
| SSW       | 0.0005 | 0.0045  | 0.0045   | 0.0005    | 0.0000    | 0.0000 | 0.0100 | 6.8470 |
| SW        | 0.0002 | 0.0019  | 0.0022   | 0.0002    | 0.0000    | 0.0000 | 0.0045 | 6.6281 |
| WSW       | 0.0002 | 0.0019  | 0.0010   | 0.0003    | 0.0000    | 0.0000 | 0.0035 | 6.2756 |
| W         | 0.0002 | 0.0014  | 0.0009   | 0.0005    | 0.0000    | 0.0000 | 0.0029 | 7.1951 |
| WNW       | 0.0000 | 0.0016  | 0.0012   | 0.0005    | 0.0000    | 0.0000 | 0.0033 | 7.2750 |
| NW        | 0.0003 | 0.0024  | 0.0017   | 0.0003    | 0.0000    | 0.0000 | 0.0048 | 6.3566 |
| NNW       | 0.0002 | 0.0012  | 0.0038   | 0.0010    | 0.0000    | 0.0000 | 0.0062 | 8.1396 |
| Total     | 0.0035 | 0.0299  | 0.0588   | 0.0114    | 0.0000    | 0.0000 | 0.1035 |        |
| Avg WS    | 2.9223 | 5.0232  | 8.5253   | 11.0755   | 0.0000    | 0.0000 |        | 7.6093 |

Number of hours of data for this stability - 600

Total number of calms for the data set - 3

## WOODWARD-CLYDE CONSULTANTS

## AEROMETRIC DATA SYSTEM

## JOINT FREQUENCY DISTRIBUTION REPORT

Selected Station: MET 2

From JANUARY 25, 91 through SEPTEMBER 30, 91

Stability Index D

## WIND SPEED CLASSES (Knots)

| Direction | 0-3.5  | 3.5-6.5 | 6.5-10.5 | 10.5-16.5 | 16.5-20.5 | >20.5   | Total  | Avg WS  |
|-----------|--------|---------|----------|-----------|-----------|---------|--------|---------|
| N         | 0.0002 | 0.0026  | 0.0052   | 0.0083    | 0.0035    | 0.0007  | 0.0204 | 12.0567 |
| NNE       | 0.0002 | 0.0041  | 0.0072   | 0.0093    | 0.0019    | 0.0003  | 0.0231 | 10.7756 |
| NE        | 0.0005 | 0.0036  | 0.0069   | 0.0031    | 0.0005    | 0.0000  | 0.0147 | 8.3588  |
| ENE       | 0.0007 | 0.0053  | 0.0052   | 0.0029    | 0.0003    | 0.0000  | 0.0145 | 8.1228  |
| E         | 0.0005 | 0.0031  | 0.0074   | 0.0029    | 0.0002    | 0.0000  | 0.0142 | 8.4482  |
| ESE       | 0.0010 | 0.0045  | 0.0043   | 0.0035    | 0.0005    | 0.0000  | 0.0138 | 8.3797  |
| SE        | 0.0010 | 0.0083  | 0.0060   | 0.0060    | 0.0003    | 0.0002  | 0.0219 | 8.1492  |
| SSE       | 0.0016 | 0.0162  | 0.0133   | 0.0079    | 0.0014    | 0.0048  | 0.0452 | 9.6046  |
| S         | 0.0009 | 0.0247  | 0.0293   | 0.0119    | 0.0022    | 0.0019  | 0.0709 | 8.6050  |
| SSW       | 0.0014 | 0.0178  | 0.0397   | 0.0119    | 0.0017    | 0.0003  | 0.0728 | 8.4323  |
| SW        | 0.0005 | 0.0123  | 0.0147   | 0.0052    | 0.0010    | 0.0003  | 0.0340 | 8.1093  |
| WSW       | 0.0007 | 0.0053  | 0.0067   | 0.0031    | 0.0003    | 0.0000  | 0.0162 | 7.9712  |
| W         | 0.0005 | 0.0038  | 0.0052   | 0.0066    | 0.0010    | 0.0003  | 0.0174 | 10.0480 |
| WNW       | 0.0000 | 0.0040  | 0.0035   | 0.0114    | 0.0038    | 0.0012  | 0.0238 | 12.4485 |
| NW        | 0.0009 | 0.0041  | 0.0060   | 0.0064    | 0.0017    | 0.0003  | 0.0195 | 10.0540 |
| NNW       | 0.0009 | 0.0052  | 0.0055   | 0.0059    | 0.0009    | 0.0002  | 0.0185 | 9.1153  |
| Total     | 0.0114 | 0.1249  | 0.1662   | 0.1063    | 0.0214    | 0.0107  | 0.4409 |         |
| Avg WS    | 2.9743 | 5.2361  | 8.1635   | 12.9391   | 18.1164   | 22.4902 |        | 9.1820  |

Number of hours of data for this stability - 2555

Total number of calms for the data set - 3

WOODWARD-CLYDE CONSULTANTS

AEROMETRIC DATA SYSTEM

JOINT FREQUENCY DISTRIBUTION REPORT

Selected Station: MET 2

From JANUARY 25, 91 through SEPTEMBER 30, 91

Stability Index E

WIND SPEED CLASSES (Knots)

| Direction | 0-3.5  | 3.5-6.5 | 6.5-10.5 | 10.5-16.5 | 16.5-20.5 | >20.5  | Total  | Avg WS |
|-----------|--------|---------|----------|-----------|-----------|--------|--------|--------|
| N         | 0.0009 | 0.0021  | 0.0002   | 0.0000    | 0.0000    | 0.0000 | 0.0031 | 4.1423 |
| NNE       | 0.0003 | 0.0022  | 0.0005   | 0.0000    | 0.0000    | 0.0000 | 0.0031 | 4.9860 |
| NE        | 0.0005 | 0.0016  | 0.0002   | 0.0000    | 0.0000    | 0.0000 | 0.0022 | 4.4838 |
| ENE       | 0.0007 | 0.0024  | 0.0002   | 0.0000    | 0.0000    | 0.0000 | 0.0033 | 4.4777 |
| E         | 0.0003 | 0.0017  | 0.0009   | 0.0000    | 0.0000    | 0.0000 | 0.0029 | 5.2425 |
| ESE       | 0.0012 | 0.0007  | 0.0010   | 0.0000    | 0.0000    | 0.0000 | 0.0029 | 4.9835 |
| SE        | 0.0014 | 0.0060  | 0.0017   | 0.0000    | 0.0000    | 0.0000 | 0.0091 | 5.1066 |
| SSE       | 0.0010 | 0.0155  | 0.0142   | 0.0000    | 0.0000    | 0.0000 | 0.0307 | 6.1196 |
| S         | 0.0017 | 0.0147  | 0.0207   | 0.0000    | 0.0000    | 0.0000 | 0.0371 | 6.6752 |
| SSW       | 0.0009 | 0.0059  | 0.0204   | 0.0000    | 0.0000    | 0.0000 | 0.0271 | 7.3855 |
| SW        | 0.0007 | 0.0041  | 0.0071   | 0.0000    | 0.0000    | 0.0000 | 0.0119 | 6.7666 |
| WSW       | 0.0002 | 0.0036  | 0.0017   | 0.0000    | 0.0000    | 0.0000 | 0.0055 | 6.1823 |
| W         | 0.0003 | 0.0024  | 0.0026   | 0.0000    | 0.0000    | 0.0000 | 0.0053 | 6.4627 |
| WNW       | 0.0009 | 0.0017  | 0.0017   | 0.0000    | 0.0000    | 0.0000 | 0.0043 | 5.8103 |
| NW        | 0.0000 | 0.0033  | 0.0009   | 0.0000    | 0.0000    | 0.0000 | 0.0041 | 5.3853 |
| NNW       | 0.0009 | 0.0019  | 0.0007   | 0.0000    | 0.0000    | 0.0000 | 0.0035 | 4.9992 |
| Total     | 0.0119 | 0.0699  | 0.0745   | 0.0000    | 0.0000    | 0.0000 | 0.1563 |        |
| Avg WS    | 2.8435 | 5.0996  | 7.9031   | 0.0000    | 0.0000    | 0.0000 |        | 6.2646 |

Number of hours of data for this stability - 906

Total number of calms for the data set - 3

## WOODWARD-CLYDE CONSULTANTS

## AEROMETRIC DATA SYSTEM

## JOINT FREQUENCY DISTRIBUTION REPORT

Selected Station: MET 2

From JANUARY 25, 91 through SEPTEMBER 30, 91

Stability Index F

## WIND SPEED CLASSES (Knots)

| Direction | 0-3.5  | 3.5-6.5 | 6.5-10.5 | 10.5-16.5 | 16.5-20.5 | >20.5  | Total  | Avg WS |
|-----------|--------|---------|----------|-----------|-----------|--------|--------|--------|
| N         | 0.0016 | 0.0016  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0031 | 3.4158 |
| NNE       | 0.0019 | 0.0021  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0040 | 3.7076 |
| NE        | 0.0019 | 0.0019  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0038 | 3.5849 |
| ENE       | 0.0017 | 0.0010  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0028 | 3.0944 |
| E         | 0.0017 | 0.0010  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0028 | 3.2512 |
| ESE       | 0.0016 | 0.0012  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0028 | 3.4298 |
| SE        | 0.0038 | 0.0026  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0064 | 3.4312 |
| SSE       | 0.0022 | 0.0022  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0045 | 3.5944 |
| S         | 0.0047 | 0.0047  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0093 | 3.6657 |
| SSW       | 0.0038 | 0.0029  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0067 | 3.4979 |
| SW        | 0.0019 | 0.0041  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0060 | 3.7858 |
| WSW       | 0.0017 | 0.0024  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0041 | 3.7369 |
| W         | 0.0026 | 0.0024  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0050 | 3.4822 |
| WNW       | 0.0021 | 0.0009  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0029 | 2.8000 |
| NW        | 0.0028 | 0.0014  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0041 | 3.2500 |
| NNW       | 0.0016 | 0.0007  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0022 | 3.0210 |
| Total     | 0.0374 | 0.0331  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0706 |        |
| Avg WS    | 2.6339 | 4.4443  | 0.0000   | 0.0000    | 0.0000    | 0.0000 |        | 3.4837 |

Number of hours of data for this stability - 409

Total number of calms for the data set - 3

## WOODWARD-CLYDE CONSULTANTS

## AEROMETRIC DATA SYSTEM

## JOINT FREQUENCY DISTRIBUTION REPORT

Selected Station: MET 2

From JANUARY 25, 91 through SEPTEMBER 30, 91

Stability Index ALL

## WIND SPEED CLASSES (Knots)

| Direction | 0-3.5  | 3.5-6.5 | 6.5-10.5 | 10.5-16.5 | 16.5-20.5 | >20.5   | Total  | Avg WS |
|-----------|--------|---------|----------|-----------|-----------|---------|--------|--------|
| N         | 0.0071 | 0.0221  | 0.0205   | 0.0100    | 0.0035    | 0.0007  | 0.0638 | 7.8577 |
| NNE       | 0.0057 | 0.0269  | 0.0198   | 0.0110    | 0.0019    | 0.0003  | 0.0657 | 7.5778 |
| NE        | 0.0060 | 0.0195  | 0.0173   | 0.0035    | 0.0005    | 0.0000  | 0.0468 | 6.3961 |
| ENE       | 0.0059 | 0.0209  | 0.0119   | 0.0033    | 0.0003    | 0.0000  | 0.0423 | 6.2490 |
| E         | 0.0052 | 0.0174  | 0.0142   | 0.0033    | 0.0002    | 0.0000  | 0.0402 | 6.4540 |
| ESE       | 0.0066 | 0.0171  | 0.0098   | 0.0040    | 0.0005    | 0.0000  | 0.0380 | 6.3572 |
| SE        | 0.0100 | 0.0283  | 0.0129   | 0.0071    | 0.0003    | 0.0002  | 0.0588 | 6.2538 |
| SSE       | 0.0079 | 0.0412  | 0.0319   | 0.0091    | 0.0014    | 0.0048  | 0.0965 | 7.5881 |
| S         | 0.0116 | 0.0602  | 0.0559   | 0.0126    | 0.0022    | 0.0019  | 0.1444 | 7.1837 |
| SSW       | 0.0093 | 0.0381  | 0.0651   | 0.0124    | 0.0017    | 0.0003  | 0.1270 | 7.4869 |
| SW        | 0.0064 | 0.0295  | 0.0247   | 0.0053    | 0.0010    | 0.0003  | 0.0673 | 6.7739 |
| WSW       | 0.0060 | 0.0183  | 0.0105   | 0.0035    | 0.0003    | 0.0000  | 0.0387 | 6.2039 |
| W         | 0.0067 | 0.0154  | 0.0100   | 0.0071    | 0.0010    | 0.0003  | 0.0406 | 7.2049 |
| WNW       | 0.0057 | 0.0135  | 0.0074   | 0.0119    | 0.0038    | 0.0012  | 0.0435 | 9.0805 |
| NW        | 0.0081 | 0.0162  | 0.0100   | 0.0067    | 0.0017    | 0.0003  | 0.0431 | 7.0966 |
| NNW       | 0.0060 | 0.0166  | 0.0128   | 0.0069    | 0.0009    | 0.0002  | 0.0433 | 7.0767 |
| Total     | 0.1142 | 0.4012  | 0.3348   | 0.1177    | 0.0214    | 0.0107  | 1.0000 |        |
| Avg WS    | 2.7849 | 4.9996  | 8.0475   | 12.7587   | 18.1164   | 22.4902 |        | 7.1479 |

Number of hours of data for this stability - 5795

Total number of calms for the data set - 3



## WOODWARD-CLYDE CONSULTANTS

## AEROMETRIC DATA SYSTEM

## JOINT FREQUENCY DISTRIBUTION REPORT

Selected Station: MET 3

From JANUARY 24, 91 through SEPTEMBER 30, 91

Stability Index A

## WIND SPEED CLASSES (Knots)

| Direction | 0-3.5  | 3.5-6.5 | 6.5-10.5 | 10.5-16.5 | 16.5-20.5 | >20.5  | Total  | Avg WS |
|-----------|--------|---------|----------|-----------|-----------|--------|--------|--------|
| N         | 0.0052 | 0.0041  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0093 | 3.3323 |
| NNE       | 0.0045 | 0.0073  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0118 | 3.8384 |
| NE        | 0.0022 | 0.0052  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0074 | 3.8163 |
| ENE       | 0.0040 | 0.0035  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0074 | 3.3950 |
| E         | 0.0021 | 0.0021  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0041 | 3.5065 |
| ESE       | 0.0022 | 0.0022  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0045 | 3.4341 |
| SE        | 0.0024 | 0.0010  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0035 | 2.9149 |
| SSE       | 0.0029 | 0.0017  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0047 | 3.0673 |
| S         | 0.0048 | 0.0012  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0060 | 2.7473 |
| SSW       | 0.0028 | 0.0028  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0055 | 3.4420 |
| SW        | 0.0021 | 0.0010  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0031 | 3.1876 |
| WSW       | 0.0016 | 0.0007  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0022 | 3.1700 |
| W         | 0.0016 | 0.0007  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0022 | 2.7445 |
| WNW       | 0.0014 | 0.0009  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0022 | 3.0430 |
| NW        | 0.0045 | 0.0016  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0060 | 2.9584 |
| NNW       | 0.0029 | 0.0016  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0045 | 3.0491 |
| Total     | 0.0472 | 0.0375  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0847 |        |
| Avg WS    | 2.3835 | 4.5063  | 0.0000   | 0.0000    | 0.0000    | 0.0000 |        | 3.3236 |

Number of hours of data for this stability - 490

Total number of calms for the data set - 80

## WOODWARD-CLYDE CONSULTANTS

## AEROMETRIC DATA SYSTEM

## JOINT FREQUENCY DISTRIBUTION REPORT

Selected Station: MET 3

From JANUARY 24, 91 through SEPTEMBER 30, 91

Stability Index B

## WIND SPEED CLASSES (Knots)

| Direction | 0-3.5  | 3.5-6.5 | 6.5-10.5 | 10.5-16.5 | 16.5-20.5 | >20.5  | Total  | Avg WS |
|-----------|--------|---------|----------|-----------|-----------|--------|--------|--------|
| N         | 0.0005 | 0.0036  | 0.0021   | 0.0000    | 0.0000    | 0.0000 | 0.0062 | 5.7846 |
| NNE       | 0.0000 | 0.0029  | 0.0028   | 0.0000    | 0.0000    | 0.0000 | 0.0057 | 6.1902 |
| NE        | 0.0012 | 0.0036  | 0.0012   | 0.0000    | 0.0000    | 0.0000 | 0.0060 | 5.1495 |
| ENE       | 0.0003 | 0.0017  | 0.0016   | 0.0000    | 0.0000    | 0.0000 | 0.0036 | 5.7361 |
| E         | 0.0005 | 0.0022  | 0.0007   | 0.0000    | 0.0000    | 0.0000 | 0.0035 | 5.0044 |
| ESE       | 0.0005 | 0.0022  | 0.0009   | 0.0000    | 0.0000    | 0.0000 | 0.0036 | 5.4049 |
| SE        | 0.0009 | 0.0019  | 0.0010   | 0.0000    | 0.0000    | 0.0000 | 0.0038 | 5.0342 |
| SSE       | 0.0005 | 0.0014  | 0.0003   | 0.0000    | 0.0000    | 0.0000 | 0.0022 | 4.8337 |
| S         | 0.0012 | 0.0021  | 0.0012   | 0.0000    | 0.0000    | 0.0000 | 0.0045 | 5.0154 |
| SSW       | 0.0014 | 0.0022  | 0.0014   | 0.0000    | 0.0000    | 0.0000 | 0.0050 | 5.0709 |
| SW        | 0.0005 | 0.0014  | 0.0010   | 0.0000    | 0.0000    | 0.0000 | 0.0029 | 4.8502 |
| WSW       | 0.0012 | 0.0009  | 0.0003   | 0.0000    | 0.0000    | 0.0000 | 0.0024 | 3.9539 |
| W         | 0.0019 | 0.0005  | 0.0002   | 0.0000    | 0.0000    | 0.0000 | 0.0026 | 3.5583 |
| WNW       | 0.0009 | 0.0005  | 0.0005   | 0.0000    | 0.0000    | 0.0000 | 0.0019 | 4.4323 |
| NW        | 0.0003 | 0.0009  | 0.0003   | 0.0000    | 0.0000    | 0.0000 | 0.0016 | 4.9097 |
| NNW       | 0.0005 | 0.0005  | 0.0005   | 0.0000    | 0.0000    | 0.0000 | 0.0016 | 4.6049 |
| Total     | 0.0124 | 0.0287  | 0.0161   | 0.0000    | 0.0000    | 0.0000 | 0.0572 |        |
| Avg WS    | 2.6537 | 5.1913  | 6.9957   | 0.0000    | 0.0000    | 0.0000 |        | 5.1463 |

Number of hours of data for this stability - 331

Total number of calms for the data set - 80

## WOODWARD-CLYDE CONSULTANTS

## AEROMETRIC DATA SYSTEM

## JOINT FREQUENCY DISTRIBUTION REPORT

Selected Station: MET 3

From JANUARY 24, 91 through SEPTEMBER 30, 91

Stability Index C

## WIND SPEED CLASSES (Knots)

| Direction | 0-3.5  | 3.5-6.5 | 6.5-10.5 | 10.5-16.5 | 16.5-20.5 | >20.5  | Total  | Avg WS |
|-----------|--------|---------|----------|-----------|-----------|--------|--------|--------|
| N         | 0.0019 | 0.0028  | 0.0047   | 0.0010    | 0.0000    | 0.0000 | 0.0104 | 6.8365 |
| NNE       | 0.0009 | 0.0028  | 0.0064   | 0.0012    | 0.0000    | 0.0000 | 0.0112 | 7.4000 |
| NE        | 0.0009 | 0.0010  | 0.0036   | 0.0010    | 0.0000    | 0.0000 | 0.0066 | 7.5428 |
| ENE       | 0.0007 | 0.0014  | 0.0026   | 0.0000    | 0.0000    | 0.0000 | 0.0047 | 6.7779 |
| E         | 0.0007 | 0.0033  | 0.0033   | 0.0007    | 0.0000    | 0.0000 | 0.0080 | 6.5120 |
| ESE       | 0.0007 | 0.0022  | 0.0028   | 0.0002    | 0.0000    | 0.0000 | 0.0059 | 6.7275 |
| SE        | 0.0003 | 0.0019  | 0.0033   | 0.0000    | 0.0000    | 0.0000 | 0.0055 | 6.8004 |
| SSE       | 0.0014 | 0.0017  | 0.0019   | 0.0007    | 0.0000    | 0.0000 | 0.0057 | 6.2125 |
| S         | 0.0010 | 0.0035  | 0.0017   | 0.0005    | 0.0000    | 0.0000 | 0.0067 | 5.8946 |
| SSW       | 0.0016 | 0.0047  | 0.0031   | 0.0007    | 0.0000    | 0.0000 | 0.0100 | 5.9921 |
| SW        | 0.0016 | 0.0036  | 0.0031   | 0.0003    | 0.0000    | 0.0000 | 0.0086 | 5.8680 |
| WSW       | 0.0005 | 0.0024  | 0.0012   | 0.0002    | 0.0000    | 0.0000 | 0.0043 | 5.4432 |
| W         | 0.0010 | 0.0012  | 0.0010   | 0.0007    | 0.0000    | 0.0000 | 0.0040 | 6.3601 |
| WNW       | 0.0009 | 0.0014  | 0.0017   | 0.0009    | 0.0000    | 0.0000 | 0.0048 | 6.6201 |
| NW        | 0.0010 | 0.0009  | 0.0016   | 0.0003    | 0.0000    | 0.0000 | 0.0038 | 6.2545 |
| NNW       | 0.0014 | 0.0024  | 0.0028   | 0.0014    | 0.0000    | 0.0000 | 0.0080 | 6.8633 |
| Total     | 0.0164 | 0.0372  | 0.0448   | 0.0099    | 0.0000    | 0.0000 | 0.1082 |        |
| Avg WS    | 2.5497 | 4.8727  | 8.4306   | 11.0569   | 0.0000    | 0.0000 |        | 6.5553 |

Number of hours of data for this stability - 626

Total number of calms for the data set - 80

## WOODWARD-CLYDE CONSULTANTS

## AEROMETRIC DATA SYSTEM

## JOINT FREQUENCY DISTRIBUTION REPORT

Selected Station: MET 3

From JANUARY 24, 91 through SEPTEMBER 30, 91

Stability Index D

## WIND SPEED CLASSES (Knots)

| Direction | 0-3.5  | 3.5-6.5 | 6.5-10.5 | 10.5-16.5 | 16.5-20.5 | >20.5   | Total  | Avg WS |
|-----------|--------|---------|----------|-----------|-----------|---------|--------|--------|
| N         | 0.0040 | 0.0080  | 0.0128   | 0.0093    | 0.0029    | 0.0003  | 0.0373 | 9.1096 |
| NNE       | 0.0040 | 0.0062  | 0.0080   | 0.0076    | 0.0007    | 0.0002  | 0.0266 | 8.1899 |
| NE        | 0.0033 | 0.0085  | 0.0071   | 0.0045    | 0.0002    | 0.0000  | 0.0235 | 7.2200 |
| ENE       | 0.0021 | 0.0071  | 0.0050   | 0.0019    | 0.0003    | 0.0000  | 0.0164 | 6.8530 |
| E         | 0.0036 | 0.0074  | 0.0064   | 0.0024    | 0.0002    | 0.0000  | 0.0200 | 6.6124 |
| ESE       | 0.0021 | 0.0073  | 0.0048   | 0.0024    | 0.0002    | 0.0000  | 0.0168 | 6.9739 |
| SE        | 0.0036 | 0.0107  | 0.0069   | 0.0045    | 0.0003    | 0.0000  | 0.0261 | 6.9162 |
| SSE       | 0.0062 | 0.0159  | 0.0116   | 0.0080    | 0.0017    | 0.0021  | 0.0455 | 8.2430 |
| S         | 0.0086 | 0.0318  | 0.0142   | 0.0081    | 0.0038    | 0.0005  | 0.0671 | 7.1321 |
| SSW       | 0.0076 | 0.0436  | 0.0296   | 0.0054    | 0.0007    | 0.0000  | 0.0868 | 6.3980 |
| SW        | 0.0080 | 0.0287  | 0.0123   | 0.0035    | 0.0003    | 0.0000  | 0.0527 | 5.9173 |
| WSW       | 0.0047 | 0.0085  | 0.0035   | 0.0014    | 0.0002    | 0.0000  | 0.0181 | 5.6309 |
| W         | 0.0036 | 0.0047  | 0.0069   | 0.0043    | 0.0009    | 0.0002  | 0.0206 | 8.0212 |
| WNW       | 0.0038 | 0.0045  | 0.0059   | 0.0086    | 0.0021    | 0.0003  | 0.0252 | 9.6948 |
| NW        | 0.0052 | 0.0066  | 0.0057   | 0.0078    | 0.0016    | 0.0003  | 0.0271 | 8.7469 |
| NNW       | 0.0041 | 0.0080  | 0.0086   | 0.0045    | 0.0010    | 0.0000  | 0.0263 | 7.5047 |
| Total     | 0.0745 | 0.2072  | 0.1492   | 0.0842    | 0.0171    | 0.0040  | 0.5361 |        |
| Avg WS    | 2.5364 | 5.0138  | 8.1359   | 13.0013   | 18.1664   | 22.6309 |        | 7.3426 |

Number of hours of data for this stability - 3102

Total number of calms for the data set - 80

## WOODWARD-CLYDE CONSULTANTS

## AEROMETRIC DATA SYSTEM

## JOINT FREQUENCY DISTRIBUTION REPORT

Selected Station: MET 3

From JANUARY 24, 91 through SEPTEMBER 30, 91

Stability Index E

## WIND SPEED CLASSES (Knots)

| Direction | 0-3.5  | 3.5-6.5 | 6.5-10.5 | 10.5-16.5 | 16.5-20.5 | >20.5  | Total  | Avg WS |
|-----------|--------|---------|----------|-----------|-----------|--------|--------|--------|
| N         | 0.0016 | 0.0014  | 0.0007   | 0.0000    | 0.0000    | 0.0000 | 0.0036 | 4.4006 |
| NNE       | 0.0007 | 0.0024  | 0.0010   | 0.0000    | 0.0000    | 0.0000 | 0.0041 | 5.1327 |
| NE        | 0.0014 | 0.0021  | 0.0005   | 0.0000    | 0.0000    | 0.0000 | 0.0040 | 4.4132 |
| ENE       | 0.0005 | 0.0017  | 0.0003   | 0.0000    | 0.0000    | 0.0000 | 0.0026 | 4.8879 |
| E         | 0.0016 | 0.0019  | 0.0005   | 0.0000    | 0.0000    | 0.0000 | 0.0040 | 4.3354 |
| ESE       | 0.0021 | 0.0017  | 0.0007   | 0.0000    | 0.0000    | 0.0000 | 0.0045 | 4.0383 |
| SE        | 0.0012 | 0.0054  | 0.0009   | 0.0000    | 0.0000    | 0.0000 | 0.0074 | 4.6943 |
| SSE       | 0.0024 | 0.0090  | 0.0017   | 0.0000    | 0.0000    | 0.0000 | 0.0131 | 4.7345 |
| S         | 0.0033 | 0.0135  | 0.0012   | 0.0000    | 0.0000    | 0.0000 | 0.0180 | 4.6016 |
| SSW       | 0.0040 | 0.0199  | 0.0105   | 0.0000    | 0.0000    | 0.0000 | 0.0344 | 5.4852 |
| SW        | 0.0022 | 0.0081  | 0.0033   | 0.0000    | 0.0000    | 0.0000 | 0.0137 | 5.1320 |
| WSW       | 0.0019 | 0.0017  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0036 | 3.2801 |
| W         | 0.0014 | 0.0029  | 0.0003   | 0.0000    | 0.0000    | 0.0000 | 0.0047 | 4.5200 |
| WNW       | 0.0022 | 0.0010  | 0.0005   | 0.0000    | 0.0000    | 0.0000 | 0.0038 | 3.7021 |
| NW        | 0.0016 | 0.0019  | 0.0007   | 0.0000    | 0.0000    | 0.0000 | 0.0041 | 4.1537 |
| NNW       | 0.0017 | 0.0028  | 0.0007   | 0.0000    | 0.0000    | 0.0000 | 0.0052 | 4.1976 |
| Total     | 0.0297 | 0.0774  | 0.0237   | 0.0000    | 0.0000    | 0.0000 | 0.1308 |        |
| Avg WS    | 2.5478 | 4.9551  | 7.0967   | 0.0000    | 0.0000    | 0.0000 |        | 4.7957 |

Number of hours of data for this stability - 757

Total number of calms for the data set - 80

## WOODWARD-CLYDE CONSULTANTS

## AEROMETRIC DATA SYSTEM

## JOINT FREQUENCY DISTRIBUTION REPORT

Selected Station: MET 3

From JANUARY 24, 91 through SEPTEMBER 30, 91

Stability Index F

## WIND SPEED CLASSES (Knots)

| Direction | 0-3.5  | 3.5-6.5 | 6.5-10.5 | 10.5-16.5 | 16.5-20.5 | >20.5  | Total  | Avg WS |
|-----------|--------|---------|----------|-----------|-----------|--------|--------|--------|
| N         | 0.0017 | 0.0021  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0038 | 3.4464 |
| NNE       | 0.0029 | 0.0022  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0052 | 3.2975 |
| NE        | 0.0022 | 0.0021  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0043 | 3.2606 |
| ENE       | 0.0019 | 0.0007  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0026 | 2.8341 |
| E         | 0.0024 | 0.0014  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0038 | 2.9538 |
| ESE       | 0.0021 | 0.0022  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0043 | 3.6844 |
| SE        | 0.0026 | 0.0035  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0060 | 3.5005 |
| SSE       | 0.0033 | 0.0048  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0081 | 3.6698 |
| S         | 0.0033 | 0.0057  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0090 | 3.7479 |
| SSW       | 0.0040 | 0.0057  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0097 | 3.8385 |
| SW        | 0.0036 | 0.0045  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0081 | 3.6699 |
| WSW       | 0.0029 | 0.0022  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0052 | 3.4321 |
| W         | 0.0019 | 0.0010  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0029 | 3.2178 |
| WNW       | 0.0014 | 0.0019  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0033 | 3.6199 |
| NW        | 0.0016 | 0.0009  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0024 | 3.0564 |
| NNW       | 0.0019 | 0.0022  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0041 | 3.2851 |
| Total     | 0.0398 | 0.0432  | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0830 |        |
| Avg WS    | 2.4518 | 4.4694  | 0.0000   | 0.0000    | 0.0000    | 0.0000 |        | 3.5026 |

Number of hours of data for this stability - 480

Total number of calms for the data set - 80

WOODWARD-CLYDE CONSULTANTS

AEROMETRIC DATA SYSTEM

JOINT FREQUENCY DISTRIBUTION REPORT

Selected Station: MET 3

From JANUARY 24, 91 through SEPTEMBER 30, 91

Stability Index ALL

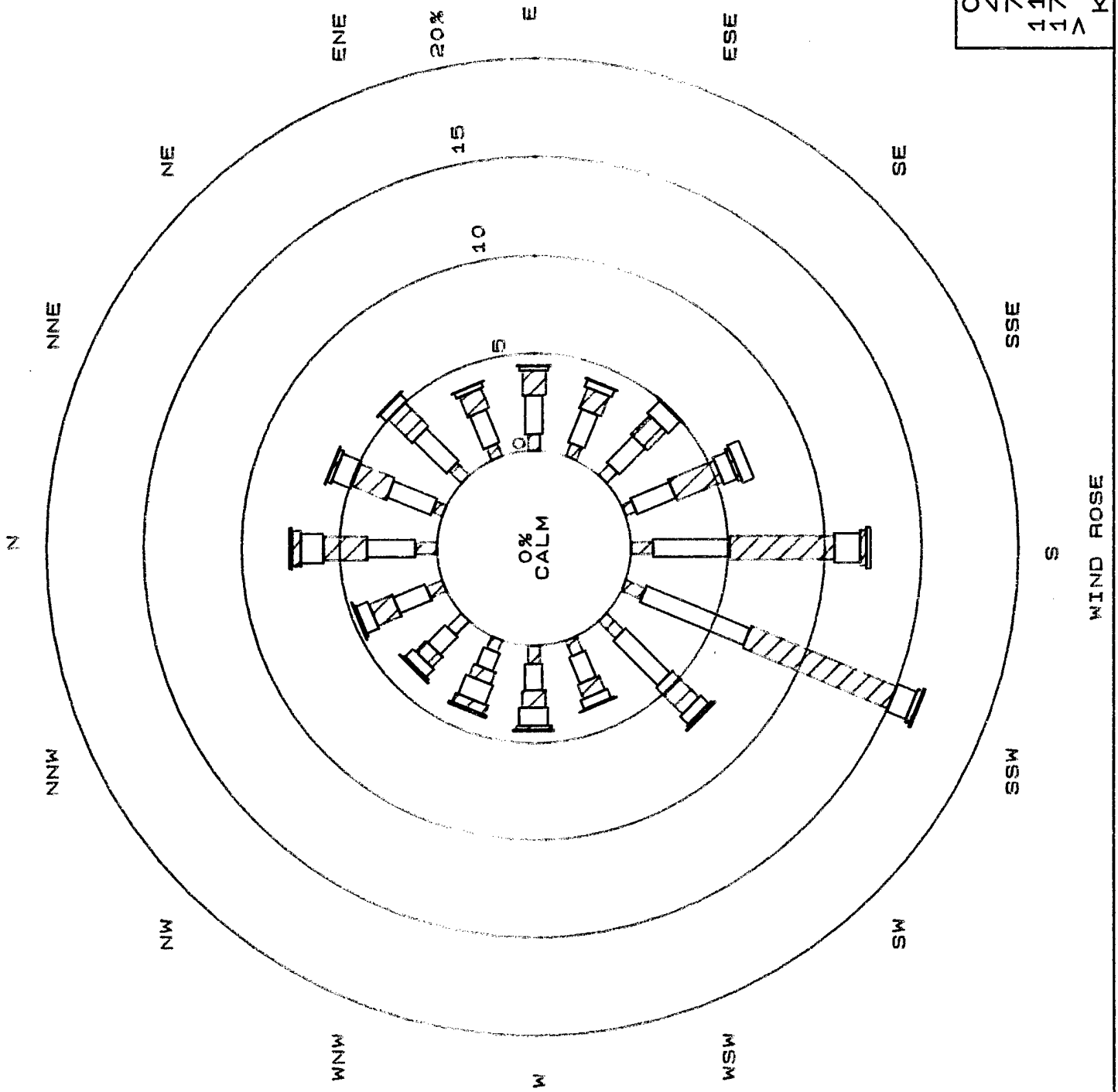
WIND SPEED CLASSES (Knots)

| Direction | 0-3.5  | 3.5-6.5 | 6.5-10.5 | 10.5-16.5 | 16.5-20.5 | >20.5   | Total  | Avg WS |
|-----------|--------|---------|----------|-----------|-----------|---------|--------|--------|
| N         | 0.0149 | 0.0219  | 0.0202   | 0.0104    | 0.0029    | 0.0003  | 0.0707 | 7.1743 |
| NNE       | 0.0130 | 0.0239  | 0.0181   | 0.0088    | 0.0007    | 0.0002  | 0.0646 | 6.4964 |
| NE        | 0.0112 | 0.0225  | 0.0124   | 0.0055    | 0.0002    | 0.0000  | 0.0518 | 5.9863 |
| ENE       | 0.0095 | 0.0161  | 0.0095   | 0.0019    | 0.0003    | 0.0000  | 0.0373 | 5.6311 |
| E         | 0.0109 | 0.0183  | 0.0109   | 0.0031    | 0.0002    | 0.0000  | 0.0434 | 5.6396 |
| ESE       | 0.0097 | 0.0180  | 0.0092   | 0.0026    | 0.0002    | 0.0000  | 0.0396 | 5.6991 |
| SE        | 0.0111 | 0.0244  | 0.0121   | 0.0045    | 0.0003    | 0.0000  | 0.0524 | 5.7933 |
| SSE       | 0.0168 | 0.0346  | 0.0156   | 0.0086    | 0.0017    | 0.0021  | 0.0793 | 6.6468 |
| S         | 0.0223 | 0.0577  | 0.0183   | 0.0086    | 0.0038    | 0.0005  | 0.1113 | 6.0515 |
| SSW       | 0.0213 | 0.0788  | 0.0446   | 0.0060    | 0.0007    | 0.0000  | 0.1514 | 5.8482 |
| SW        | 0.0180 | 0.0474  | 0.0197   | 0.0038    | 0.0003    | 0.0000  | 0.0892 | 5.4572 |
| WSW       | 0.0128 | 0.0164  | 0.0050   | 0.0016    | 0.0002    | 0.0000  | 0.0359 | 4.7872 |
| W         | 0.0114 | 0.0111  | 0.0085   | 0.0050    | 0.0009    | 0.0002  | 0.0370 | 6.3860 |
| WNW       | 0.0105 | 0.0102  | 0.0086   | 0.0095    | 0.0021    | 0.0003  | 0.0413 | 7.6960 |
| NW        | 0.0142 | 0.0126  | 0.0083   | 0.0081    | 0.0016    | 0.0003  | 0.0451 | 6.9007 |
| NNW       | 0.0126 | 0.0175  | 0.0126   | 0.0059    | 0.0010    | 0.0000  | 0.0496 | 6.2088 |
| Total     | 0.2200 | 0.4312  | 0.2337   | 0.0940    | 0.0171    | 0.0040  | 1.0000 |        |
| Avg WS    | 2.4975 | 4.9042  | 8.0086   | 12.7976   | 18.1664   | 22.6309 |        | 6.1396 |

Number of hours of data for this stability - 5786

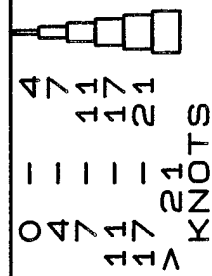
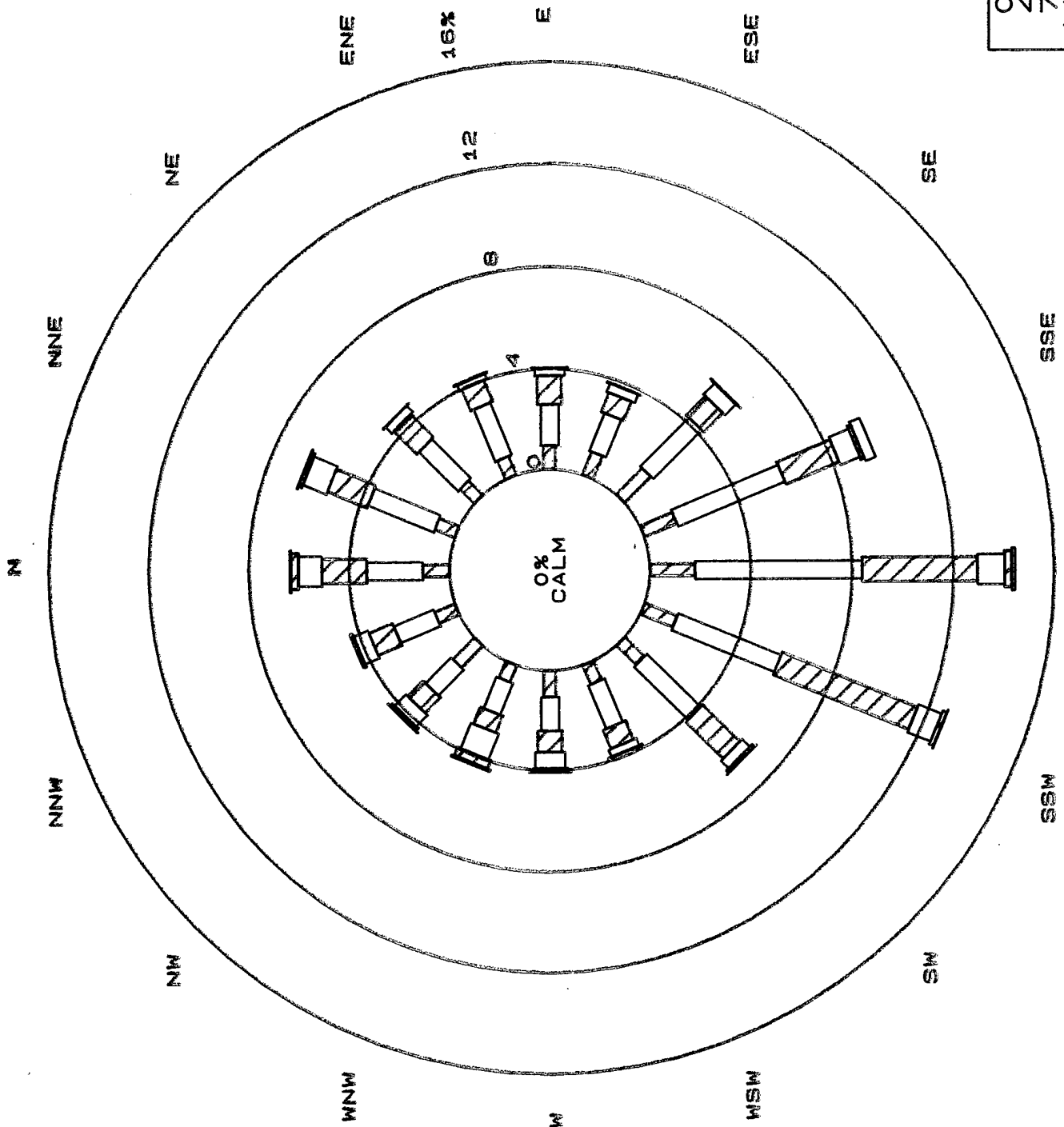
Total number of calms for the data set - 80

MET 1 JANUARY 1 THROUGH SEPTEMBER 30, 1991



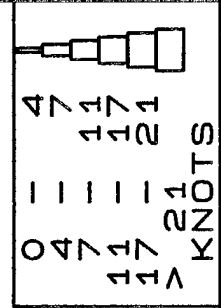
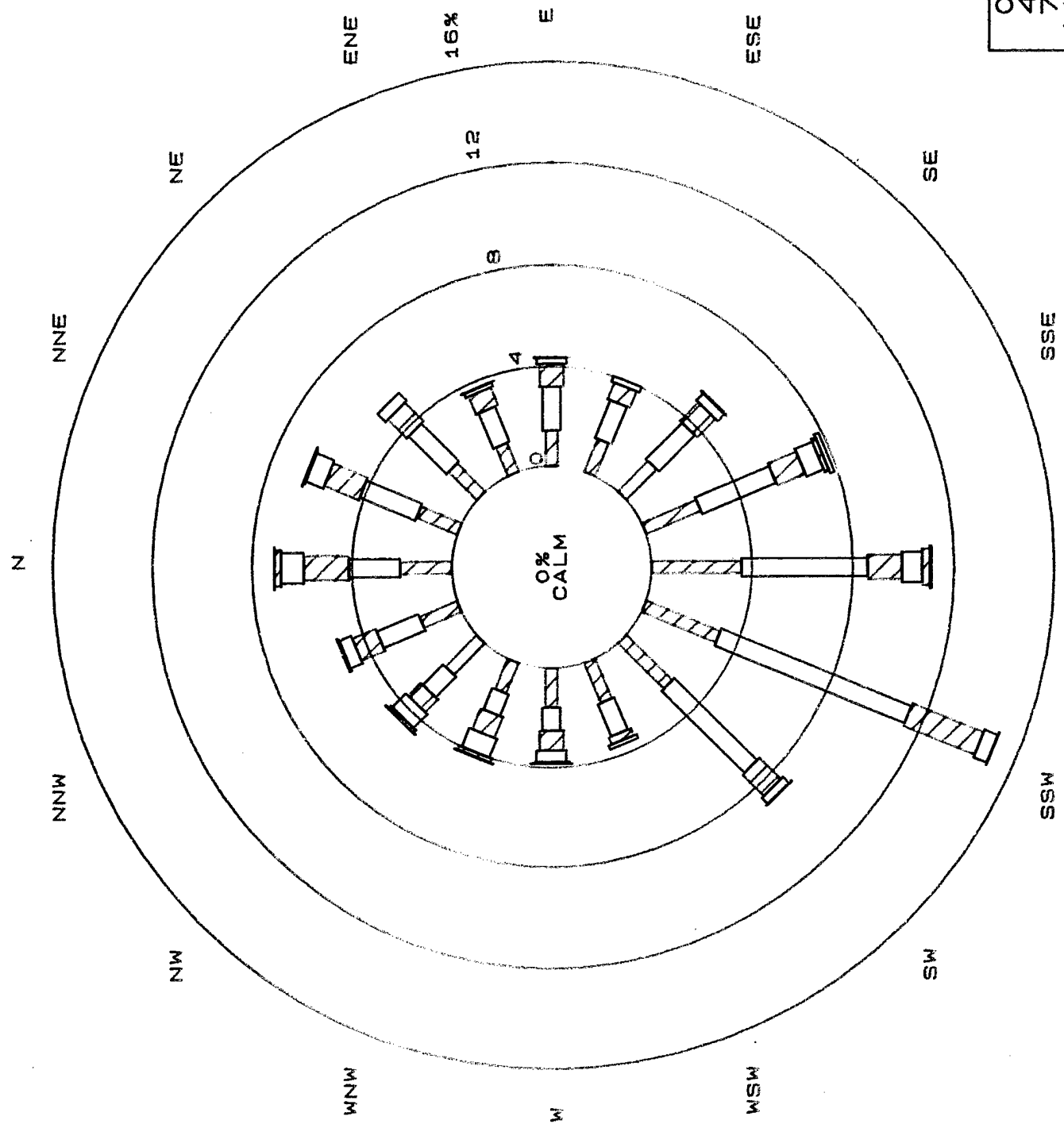


MET 2 JANUARY 1 THROUGH SEPTEMBER 30, 1991



WIND ROSE

MET 3 JANUARY 1 THROUGH SEPTEMBER 30, 1991



WIND ROSE